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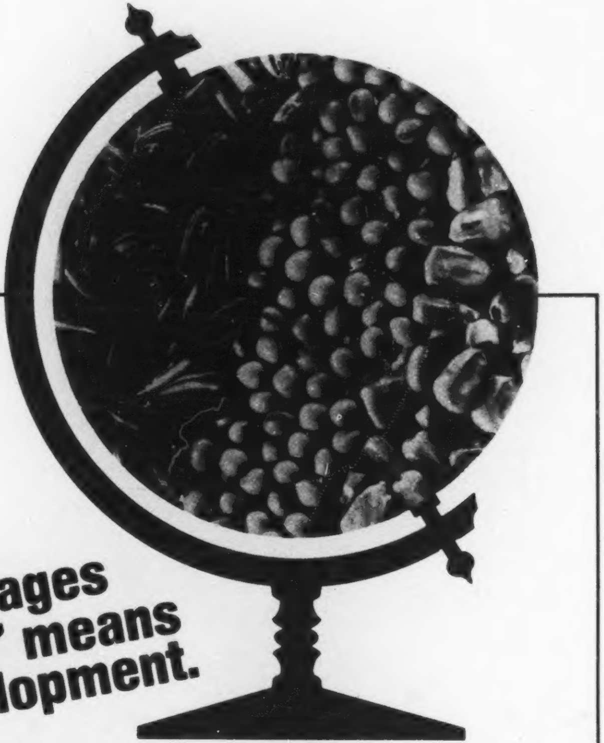

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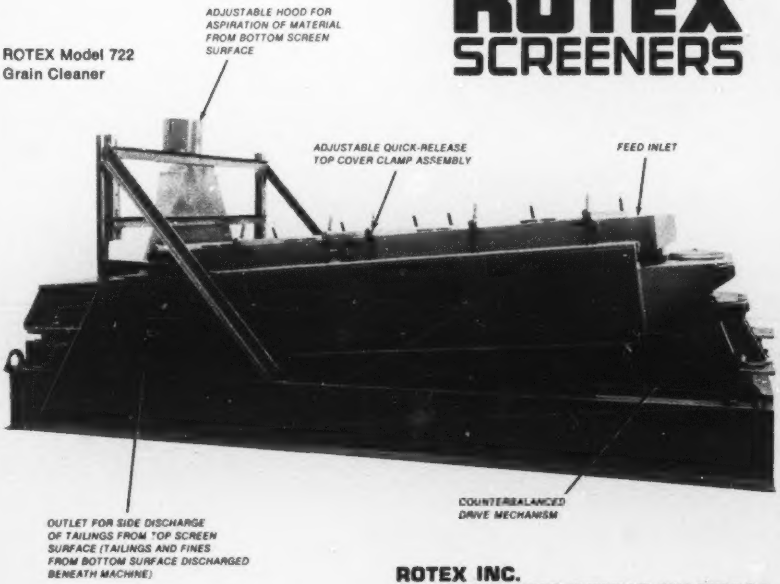

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THE SOYBEAN SUCCESS SAGA

The ascension of soybeans as a major U.S. and international farm commodity represents a saga unparalleled in the evolution of agriculture. Today, U.S. farmers produce 63 percent of the total world soybean supply. And, U.S. soybean growers continue to sell half their crop outside the United States.

U.S. soybean growth has been spectacular. Beginning as an experimental crop early in the 1900's, it took soybean farmers until 1968 to reach their first one billion bushel crop. In 1979, just 11 years later, soybean growers produced their first two billion bushel soybean crop.

Rapidly increasing acreage characterized the supply side of the recent U.S. soybean equation. In the past ten years alone, U.S. soybean acreage has nearly doubled — from 42 million acres to nearly 70 million acres. We cannot and should not assume such massive soybean acreage increases in the future.

Three major factors have created the soybean's soaring success:

- Soybean growers have been producing their crop for its demand, not for government programs. As a result, U.S. soybean production is sensitive to changes in the market place. And, U.S. soybean growers are concerned about meeting the needs of their customers around the world. U.S. soybean production will continue to increase or decrease based on soybean prices resulting from consumption.

- U.S. agriculture in general and soybeans in particular have been the most productive sector of the U.S. economy. An aggressive federal, state and private research effort has created increased productivity as well as improved product quality. But, we're living today on yesterday's research. To meet the opportunities of the 1980's, U.S. soybean growers will continue to press for additional soybean research to improve production technology and increase the quality of soya products. U.S. soybean growers invest more than $3 million of their own money in soybean research.

- U.S. soybean growers - in cooperation with industry and government are working throughout the world to build demand for soybeans and soybean products. In fact, U.S. soybean growers invested this year more than $5.3 million of their own money in these market promotion efforts. Soybean growers are committed to providing staff and technical experts to assist other countries in their efforts to use soybeans and soybean products.

The American Soybean Association looks forward continuing our worldwide efforts to increase the use of soybeans and soybean products and to make soybean farming more profitable. We hope this edition of SOYA BLUEBOOK will help the worldwide soybean community.

Kenneth L Bader

Kenneth L. Bader
Chief Executive Officer
American Soybean Association

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Soya Bluebook is published each June. Listings are provided to qualified members of the soybean industry. Every effort has been made to present a publication free of errors and/or omissions. In the event that errors or omissions occur, the editor of *Soya Bluebook* requests communications to that effect so that corrections can be made in future editions.
Additional copies of *Soya Bluebook* are $25. Contact Circulation & Sales Department.

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ACTIVITIES

The American Soybean Association is a national non-profit, volunteer, single commodity organization of soybean producers organized to assure the opportunity of a profitable soybean industry.

To accomplish the above, ASA:

1. Conducts and supports programs for market development of soybeans and soybean products.
2. Conducts and supports effective programs of research and education.
3. Monitors governmental programs that are of vital concern to soybean producers.
4. Develops information programs of public affairs activities which identify and promote ASA.

OBJECTIVES

1. To be the worldwide spokesman for all U.S. soybean producers.
2. To make the soybean industry a profitable venture in the U.S..
3. To maintain a national association of soybean growers to act as an umbrella organization for all affiliates.
4. To assure a free world market for soybeans, and therefore a continued increase in demand for U.S. soybeans.
5. To assure adequate support for soybean research.
6. To inform U.S. soybean producers of all available production and marketing information.

GOVERNMENT

The American Soybean Association staff and officers maintain constant contact with all branches of government at the national level in order to further the objectives of soybean producers. ASA encourages legislation and governmental actions that will benefit soybeans and result in an orderly growth of the crop and industry and discourages legislation or actions that will prove harmful or restrictive to the crop, in cooperation with state soybean associations.

ASA works with the U.S. Department of Agriculture and the industry in efforts to expand markets for U.S. soybeans and soybean products at home and abroad; it strives to maintain reasonable support levels without inducing excessive acreage and over-production; it constantly presents to Congress the need for adequate government research in the production, marketing and utilization of the crop.

HOLDS CONFERENCES with the nation's outstanding soybean authorities as speakers. Its resolutions are adopted by soybean farmer delegates at the ASA annual meeting and serve as guides for the association during the year.

ANSWERS YOUR QUESTIONS. The world headquarters of the American Soybean Association at St. Louis, MO, serves as a clearinghouse of information for the industry, answering thousands of inquiries that come throughout the year.

PUBLICATIONS

The American Soybean Association publishes four publications on a regular basis:

SOYBEAN DIGEST is the only production/management magazine in the world produced for soybean growers. Issued nine times a year, SOYBEAN DIGEST is packed with information on improved management skills and production techniques that help increase soybean grower profits.

SOYBEAN UPDATE is provided exclusively to ASA members 50 times a year to provide growers with timely information to help them make soybean marketing decisions.

SOYA BLUEBOOK, published each June, is an annual directory of the soybean industry. BLUEBOOK is available to anyone at a subscription price of $25 per book.

SOYWORLD provides a quarterly look at market development, research and government relations programs for soybean producers as well as articles on issues facing soybean farmers. SOYWORLD is sent free to soybean growers and other persons interested in the soybean industry.

MEMBERSHIP

ACTIVE PRODUCER MEMBERSHIP in the American Soybean Association is open to U.S. growers of soybeans, whether as owner, manager or operator. Annual dues are set by each affiliated state association and entitle the grower to professional marketing and management information through various membership publicaitons such as SOYBEAN UPDATE and SOYWORLD. This package is available exclusively through a soybean association membership. Active grower members have full voting rights.

NON-GROWER ASSOCIATE MEMBERSHIP is open to U.S. persons, business organizations, corporations, partnerships and other agencies who are engaged in the promotion and interests of soybeans or soybean products. Such non-grower associate members will carry all membership privileges in the association except the right to vote and may receive various membership publications such as SOYBEAN UPDATE and SOYWORLD. Annual dues are set by each affiliated state association.

FOREIGN CONTRIBUTING MEMBERSHIP is open to any foreign business organizations, corporations, partnerships and other agencies and persons interested in the welfare of the soybean industry. Annual dues shall be fixed by the American Soybean Association. Such members will carry all membership privileges in ASA except the right to vote. ASA publications such as SOYBEAN UPDATE, SOYWORLD, SOYA BLUEBOOK and SOYBEAN DIGEST are mailed highest priority mail.

AFFILIATED ASSOCIATIONS – ASA now has 24 affiliated state associations, a rapid development since the first state association was organized 14 years ago.

MEMBERSHIP INFORMATION may be obtained by writing to: Membership & Field Services Department, 777 Craig Road, P.O. Box 27300, St. Louis, MO 63141. Ph. 314-432-1600; TLX: 447297.

MARKET DEVELOPMENT PROGRAMS

Soybean exports provide about half of the income for each soybean grower. Nearly 60 cents of every export dollar comes back to the soybean grower. Soybean growers, through their state soybean grower investment checkoff, are supporting nearly 200 market promotion activities in 76 countries around the world. These programs have successfully created a new or expanded demand for soybeans overseas.

- U.S. soybean exports to Japan have increased by 120 million bushels since ASA began market promotion efforts in 1956.
- U.S. soybean exports to Mexico have doubled in the past year and ASA is continuing to work in this exciting country.
- Soy oil usage in West Germany has increased 65 percent and West Germans now consume about 1.2 billion pounds (the equivalent of 112 million bushels) of soy oil.
- Italy has imported over a $1 billion of U.S. soybeans and meal in the past three years and ASA expects its promotion efforts to lead to a 7-8 percent annual increase.
- Southeast Asia is one of the fastest growing soybean markets. The area should import about 30 million bushels by 1985 compared with 10 million bushels this year and only 790,000 bushels in 1975.
- U.S. soybean exports to the People's Republic of China increased from 5 million bushels in 1978-79 to 30 million bushels in 1979-80. And, ASA's market promotion efforts in this tremendous market are just beginning.

RESEARCH

Soybean research is a key to increasing profits for your soybeans. Through grower investment checkoffs, soybean growers fund soybean research at the state and national level. Research investments help stimulate demand by improving product quality and developing new uses. Soybean research helps reduce production costs by helping you cut harvest losses, reduce disease problems and use improved varieties. Some of the grower-funded research projects helping increase profit-per-acre potential include:

- A Winter Nursery In Belize, Central America, provides two additional plant generations and speeds important varietal research.
- Experiments have led to new equipment such as the parabolic super chisel plow for silty clay and clay loam soils. Current efforts involve a computer controlled combine that automatically adjusts five combine functions to cut harvest losses.
- Research to solve major yield barriers includes a study to learn why the soybean plant aborts 65 percent of its pod-producing blooms. Other studies are developing basic information on the soybean plant's inability to fill pods during low moisture periods.
- Major research efforts are underway to improve soy oil quality by reducing or eliminating linolenic acid, a soy oil component which adversely affects stability, color, flavor and odor. Soy oil represents 35 percent of the soybean's value.
- Research projects to develop soybean varieties resistant to phytophthora root rot, cyst nematodes and other plant pests will pay for themselves through increased yields or lower costs.

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The farmer-boards managing the 23 state checkoff programs allocate a portion of their funds to the American Soybean Development Foundation (ASDF). ASDF directors contract with the American Soybean Association to implement market development, research and education programs designed to build soybean farmer profits as outlined according to the state checkoff programs.

NATIONAL SOYBEAN PROCESSORS ASSOCIATION

Organized: 1930
Executive Offfice: 1800 M Street, NW, Washington DC 20036. Ph. 202-452-8040.

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DIRECTOR OF PUBLIC AFFAIRS—Murray C. Keene
MANAGING DIRECTOR
National Soybean Crop Improvement Council (NSCIC)—Robert W. Judd, 211 S. Race St., Urbana, IL 61801.

Regular membership in the National Soybean Processors Association is open to individual firms or corporations regularly engaged in the actual processing of soybeans. The association now has 33 member firms which process more than 95% of the soybeans crushed in the United States.

Firms which are consumers of soy oil and/or soybean meal are eligible for associate membership. A number of refiners and mixed-feed manufacturers are now associate members of the association.

The association policy is determined by its board of directors who represent all sections of the processing areas and all types of processing units. The 16 committees of the association carry on the general activities group.

Through this organization, equitable trading rules have been developed which have admirably and fairly served the buyers and sellers of soybean products during the years in which the soybean industry has made such remarkable growth.

Government relations activities of NSPA have insured close cooperation between the soybean processing industry and the Federal government, on such issues as international trade negotiations, environmental protection regulation and domestic agriculture legislation.

The NSPA Meal Export Development Committee has since 1978 reviewed extensively the American soybean meal export system and has developed revised and new trading rules improving the efficiency of the export process and the quality of products in international trade.

The intense research activity fostered by the association and its members has played an important part in placing the industry on the high plane which it enjoys today. The promotional efforts of the association and its members have established a place for soybean products in highly competitive fields. Through this research and promotional activity the products of soybeans have become standard essentials in our food, feed and industrial markets.

The national Soybean Crop Improvement Council was established in 1941 by the association to cooperate with agricultural interests to encourage the growing of soybeans in the United States. Robert W. Judd is the managing director located in Urbana, IL.

The council cooperates with agronomy departments and experiment stations in the soybean-producing states, the U.S. Department of Agriculture and all segments of the soybean industry to encourage agronomic research for the purpose of reducing soybean production costs per bushel and providing improved strains of soybeans for producers, processors and consumers. The educational activities of the council serve to promote the adoption of improved agronomic practices.

An advisory board for the council was formed in 1950 and consists of 25 university agronomy department heads, 4 scientists from USDA, a representative from commercial soybean breeders and one representative from ASA. The advisory board serves as a liaison between the council and scientists engaged in all phases of soybean production research.

The council publishes SOYBEAN NEWS in January, April and October. The publicaiton is designed to help increase soybean production efficiency. It is available to all interested persons on request.

Official trading rules governing the purchase and sale of soybean meal and soy oil are carried in the YEAR BOOK AND TRADING RULES of the National Soybean Processors Association. Copies of the yearbook may be obtained at $10 per copy at the association's Washington offices.

FOOD PROTEIN COUNCIL

Organized: 1971
Executive Office: 1800 M St., NW, Washington, DC 20036. Ph. 202-467-6610.

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The Food Protein Council is comprised of firms and corporations regularly engaged within the United States in the actual processing or sale of vegetable proteins or products containing vegetable protein products derived from agricultural sources for use and consumption in human foods.

Goals of the council are to build awareness of the established nutritional properties of commercially available vegetable proteins and to participate in the formulation of U.S. nutrition goals and policies; to assist government agencies, the scientific community, the food processing industry, and public interest groups in the better understanding of the role and utilization of vegetable proteins in the food system; and to work toward the establishment of harmonized world food regulations that maximize the economic and nutritional properties of vegetable proteins in the world food supply.

A total of 12 firms are members of the Food Protein Council.

ONTARIO SOYA-BEAN GROWERS' MARKETING BOARD

Office: Wheels Plaza, 175 Keil Dr. S., P.O. Box 1199, Chatham, Ont. N7M 5L8, Canada.
Ph. 519-352-7730; TLX: 064-78546.

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Sixteen thousand grower members. Purpose is to control and regulate the marketing of soybeans in Ontario. The board negotiates the terms and conditions of sales with dealers and processors. The board does not conduct actual purchase and sale, though it has power to do so. The board is financed by license fees paid by each grower according to the number of tonnes of soybeans sold. At present the fee is 90 cents per tonne, of which 37 cents is designated to promotion, research and advertising.

The Ontario Soya-Bean Growers' Marketing Board provides a toll-free telephone service 24 hours a day on price offered by crushers to dealers and growers.

STATE RESEARCH EXPERIMENT STATIONS

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Agricultural Experiment Station, Auburn 36830.
Department of Agronomy and Soils, 205-826-4100.
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  Thurlow, D.L.; Crop Management
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  Stevens, Clauzell; Soybean Pathologist

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Homer F. Walters, Agricultural Trade Office, APO New York, NY 09080

KOREA
Evans Browne, American Embassy, APO San Francisco, CA 96301.

NIGERIA
John H. Davenport, West Africa.

POLAND
Charles J. Larson, American Embassy, C/O AmConGen, APO New York, NY 09678.

SINGAPORE
James Y. Iso, Agricultural Trade Office, Units 1501-1504, Liat Towers, Singapore.

UNITED KINGDOM
Frank L. Waddle, American Embassy, Box 40, APO New York, NY 09678.

GOVERNMENTAL BUYING AGENCIES

CHINA
Ministry of Foreign Trade
Beijing, China.

EGYPT — The Deputy Chairman, General Authority for Supply Commodities, 24 Gomhoria St., Cairo, Egypt, Ph. 937175; TLX: 2062.

The Chairman, General Poultry Co.
El Zawiael Hamra, Cairo, Egypt, Ph. 830958.

INDIA — The State Trading Corporation of India, Ltd. Chandrolok 36 Janpath, New Delhi 110001, India, Ph. 322204; TLX: ND 2167-68-3057; CABLE: ESTICI.

IRAQ — The General Director, State Company for Animal Feed P.O. Box 11153, Baghdad, Iraq, Ph. 68231; TLX: 2223 (YAKTEEN IK).

The Director General, State Company for Animal Production, P.O. Box 10090, Karradah Sharkia-Irkaitah, Karadet Mariam, Alwiya, Baghdad, Iraq, Ph. 98974.

The Director General, General Company for Vegetable Oils, P.O. Box 2379, Baghdad, Iraq, Ph. 99094, TLX: 2221 (ZUYOUT IK); CABLE: SUYOUT BAGHDAD.

Assistant Director General, General Poultry Company P.O. Box 431 Banks Street, Baghdad, Iraq, Ph. 89101; CABLE: MADAGEN BAGHDAD.

The Director General, State Company for Animal Feed, Fudaylia, Near Mastal Petrol Station, P.O. Box 20017, Baghdad, Iraq.

JORDAN — The Manager, General Company for Vegetable Oils, Amman, Jordan, Ph. 95171.

MOROCCO — The Director General, Service de Industries Alimentaires, Direction de l'Industrie, Minister de l'Industrie, Rabat, Morocco.

SYRIA — The Director General, General Organization of Food Industries (GOFI), P.O. Box 105, Damascus, Syria, Ph. 225290; TLX: 19154 (GOFI).

The General Director, General Organization for Fodder, P.O. Box 4797, Damascus, Syria, Ph. 22168; TLX: 11089.

The General Director, General Organization for Poultry, P.O. Box 5597, Damascus, Syria, Ph. 558639; TLX. 11270 (TAFCO SY).

TUNISIA — The Director General, Union Tunisienne Industrie du Commerce et de l'Arisanai, 32, Rue Charles de Gaulle, Tunis, Tunisia.
(Oil industry)

Assistant Director General of the Office of Cereals
30 Rue Alain Savary, Tunis, Tunisia, Ph. 286628; TLX: OFIBLE 13449 PN.
(Import and export of cereal products)

food protein council

Council Purposes

- To build awareness of the established nutritional properties of commercially available vegetable proteins, and to participate in the formulation of U. S. nutrition goals and policies.
- To assist government agencies, the scientific community, the food processing industry and public interest groups to better understand the role and use of vegetable proteins in the food system.
- To work toward harmonized world food regulations that permit and encourage maximum use of vegetable proteins in the world food supply.

Shaping the Future of Food

Membership

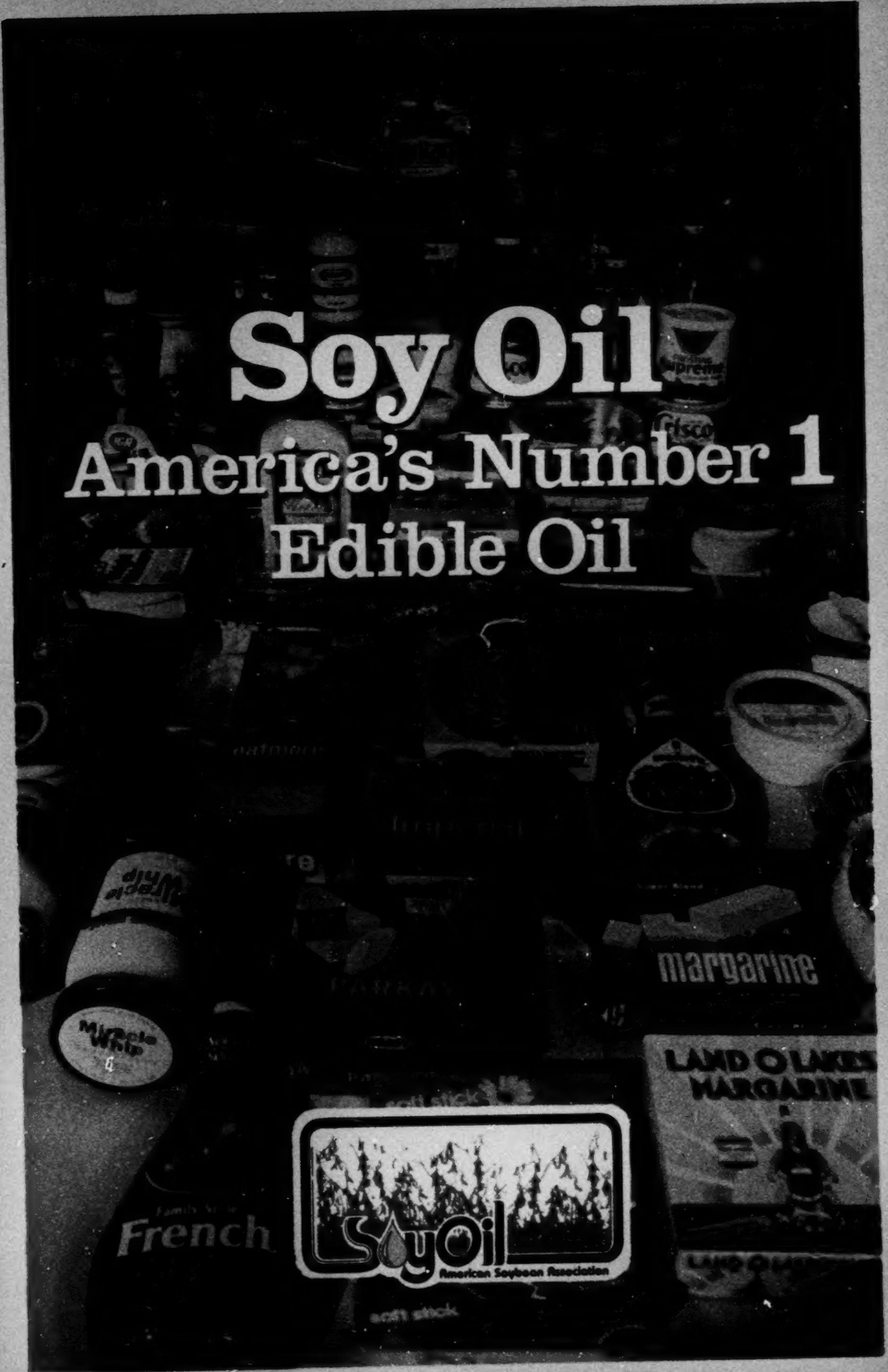
Members of the Food Protein Council are firms that process and sell vegetable proteins or food products containing vegetable proteins.

Activities

The principal activity of the Food Protein Council is to broaden the acceptance of vegetable proteins as key components of the worldwide food system. To that end, the Council pursues programs of government relations, public affairs, media information, and international market liaison.

Food Protein Council
1800 M Street, N.W., Washington, D. C. 20036 (202/467-6610)

Soy Oil
America's Number 1 Edible Oil


Crisco
Miracle Whip
Miracle Whip
margarine
LAND O LAKES MARGARINE
French
soft stick

SoyOil
American Soybean Association

soy directory

The Soy Directory is a compilation of companies that process or handle soybeans worldwide. Five categories divide these firms into similar interests.

The first two sections list by area oil extraction plants/refineries. Company name (with company function by initials), address, phone, telex and officers are listed first. Initials by company name are designated as follows: (P) processor (R) refiner (SF) soyfood manufacturer (IP) industrial product manufacturer. Officers are coded as follows: (1) president (2) vice president (3) secretary (4) treasurer (5) head soybean buyer (6) oil sales manager (7) plant superintendent (8) meal sales manager (9) plant manager. Type of processing equipment, tons per day, processing capacity, total storage capacity and railroads serving the plant are highlighted.

Soyfood and Industrial Product Manufacturers sections are next. The company listings are placed by general product categories with the firm's products highlighted within the individual listing. The remaining section is devoted to exporters of soybeans and soybean products.

Information for these listings was obtained through questionnaires sent directly to the companies. The information is as complete as possible and contain all available information but the publisher of *Soya Bluebook* will not be responsible for any omissions which may have unavoidably been made. Established policy of some firms restricts information available for publication. Listings of non-U.S. firms that have been updated for 1981 are indicated by an asterik (*).

U.S. OIL EXTRACTION PLANTS/REFINERIES **24**
NON-U.S. OIL EXTRACTION PLANTS/REFINERIES **37**
SOYFOOD MANUFACTURERS **55**
INDUSTRIAL PRODUCT MANUFACTURERS **71**
EXPORTERS **76**

u.s. oil extraction plants/refineries

ALABAMA

CONTINENTAL GRAIN CO. (P R)
Guntersville 35976, Ph. 205-582-5614; Main office: 277 Park Ave., New York, NY.
(5,8)J.W. Jefferson (9)R.D. Day.
Degumming.

GOLD KIST SOY (P)
Box 1948, Decatur 35601, Ph. 205-350-4550.
(Complex mgr.)W.R. Little (5)R.T. Upton (7)W.H. Moses (8)F.W. Luckey (9)T.E. Mitchell.

ARIZONA

ANDERSON, CLAYTON & CO. (P)
Oilseed Processing Div., P.O. Box 2988, Phoenix 85062, Ph. 602-264-7255; Plants at: Jackson and Vicksburg, MS.
(1)T.H. Wolfe (2-soybean operations)J.K. Smith (6,8)R.H. Henson.

ARKANSAS

CARGILL INC. (P)
P.O. Box 528, Osceola 72370, Ph. 501-563-5263.
(7)Harold Cook (9)C.L. Smith.
Hexane solv., Cargill soybean meal. Served by RI RR.

DELTA PRODUCTS CO. (P)
P.O. Box 218, Wilson 72395, Ph. 501-655-8603; Shipping point: Evadale.
(1)R.E.L. Wilson III (2)E.M. Regenold (3)H.F. Ohlendorf (4 & Gen. mgr.)C.A. Medlin (7)C. Bussey.
Solvent cap. 200T, storage cap. 1,500,000 bu. Delpro soybean meal. Soybean operations 40%. Served by Delta Valley & SOU RR.

FARMLAND INDUSTRIES, INC. (P)
Soybean processing plant, P.O. Box 389, Van Buren 72956, Ph. 501-474-6871; TWX: 910-720-6869.
(1)John Anderson (2)Kenneth Nielsen (3)W. Gordon Leith (4)Earl Knauss (5,6)Sam Peterson (7)Sam Young (8)Robert Hamilton (9)Larry D. Heatherington.
Solvent cap. 600T, Storage cap. 1,000,000 bu. High Protein soybean meal. Served by MP, SLSF RR.

RICELAND FOODS (P R SF IP)
Helena 72342; Main office: 2120 S. Park Ave., Stuttgart, AR.
(7)Ray Allsup (9)W.E. Higginbothom.
Solvent cap. 1,500T, 44% and 49% soybean meal. Refining, degumming and deodorizing. Served by MP RR.

RICELAND FOODS (P R SF IP)
2120 S. Park Ave., Stuttgart 72160, Ph. 501-673-5500; Cable: Arkango; TWX: 910-720-6240.
(Ch. Bd)Romeo Short Jr. (V-Ch.)Stewart Jessup (1 & Chief exec. off.)W.F. Carle (2 & Cheif op. off.)Richard E. Bell (2-finance, 3, 4)Charles Gunnell (2-soybean meal sales)Dorthy Seidenschwarz (2-edible oils sales)L.H. Dodson (Gen. traffic mgr.)Mike Wylie (2-eng. & const.)Fritz M. Bloomberg (7)Max Montgomery (9)Giles Colbert.
Solvent cap. 2,000T, 44% and 49% soybean meal. Refining, degumming and deodorizing. Served by SSW, RI RR.

SOUTHERN COTTON OIL CO. (P)
Div. of ADM, Cottonseed and Soybean Plant, 324 Buckeye St., North Little Rock 72119, Ph. 501-945-1414.
John Adams.

CALIFORNIA

ANDERSON, CLAYTON FOODS (R)
P.O. Box 10051, Fresno 93745, Ph. 209-233-5786.

BEST FOODS DIV.
CPC INTERNATIONAL INC. (R)
San Francisco 94110; Main office: Englewood Cliffs, NJ.
Refining and deodorizing.

HUMKO PRODUCTS, KRAFT INC. (R SF)
Buena Park 90622, Ph. 714-523-0370; Main office: Whitestation Towers, P.O. Box 398, Memphis, TN.
Refine and deodorize cottonseed, soybean, peanut and other vegetable oils.

HUNT-WESSON FOODS INC. (R SF)
1645 W. Valencia Dr., Fullerton 92634.
Refining and deodorizing.

LEVER BROS. CO. (R)
6300 E. Sheila St., Los Angeles 90022.
Refining and deodorizing.

LIBERTY VEGETABLE OIL CO. (P R)
P.O. Box L, Norwalk 90650, Ph. (Norwalk) 213-921-3567, (Los Angeles) 213-773-2092; TLX: 691-608.
(1,5)I.S. Field (2,6,8)C.W. Adams (7)O. Blair.
8 Screw pr., cap. 120T, storage cap. 300,000 bu. Refining, bleaching, deodorizing and winterizing. Served by SP RR.

PVO INTERNATIONAL INC. (P R)
1145 Harbour Way South, Richmond 94804, Ph. 415-529-1020; Main office: San Francisco, CA.
(2)Robert F. Huff (6)James Karson (9)Richard Schneider.
Hexane solv., cap. 300T, storage cap. 500,000 bu. PVO soybean meal, refining, Served by SP, ATSF RR.

PVO INTERNATIONAL INC. (P R)
World Trade Center, No. 130, San Francisco 94111, Ph. 415-362-0990; Plant at: Richmond, CA.
(2)Robert Huff (3)Roy Weitzer (8)Christopher Stern.
Manufacturing refiner.

PROCTOR & GAMBLE MFG. CO. (R)
P.O. Box 440, Long Beach 90801.

DELAWARE

TOWNSEND'S INC. (P)
Millsboro 19966, Ph. 302-934-9221.
(1)Preston C. Townsend (2)Coleman Townsend (2,6,9)George A. Adkins (3)Larry Fichter (4)Jay Jenney (5)Richard McKee (7)Walter Morgan (8)Charles Morris.
Hexane solv., cap. 1,000T, storage cap. 7,280,000 bu. Townsend's Inc. soybean meal, mixed feeds and pellets.

GEORGIA

ARCHER DANIELS MIDLAND CO. (P)
P.O. Box 729, Augusta 30903, Ph. 404-722-8866.
(6,8)Bill Goodsen (7)Gene Smith.

CARGILL INC. (P R)
P.O. Box 1298, 949 Ridge Rd., Gainsville 30501, Ph. 404-535-3100; Main office: Minneapolis, MN.
(7)Dick Parr (9)Edgar T. Savidge.
Solvent, Cargill soybean meal. Refined edible and hydrogenated oils. Served by SOU RR.

GOLD KIST INC. (P)
Box 2210, Atlanta 30301, Ph. 404-393-5022; TLX: 54-2338 & 70-8404.
(1 exec.)W.W. Gaston (2 exec.)W.C. Pulliam, D.W. Dands (2-agricom.)G.O. Coan (3) J.L. Lawing (4)C.W. Freeman (6)V.J. Ebbeskotte.

GOLD KIST SOY (P)
Box 1589, Valdosta 31601, Ph. 912-242-0100.
(Complex mgr.)G.M. Smitherman (5)David Thompson (7)G.R. Stroud.

HUNT-WESSON FOODS INC. (R SF)
P.O. Box 247, Savannah 31402.
Refining and deodorizing.

PROCTOR & GAMBLE (R)
P.O. Box 9, Macon 31202.

ILLINOIS

ANDERSON CLAYTON FOODS (R)
P.O. Box 368, Jacksonville 62650, Ph. 217-245-4134.

ARCHER DANIELS
MIDLAND CO. (P R SF IP)
4666 Faries Pkwy., Decatur 62526, Ph. 217-424-5200; Plants at: Augusta, GA; Decatur, Galesburg and Granite City, IL; Mankato and Red Wing, MN; Fredonia, KS; North Kansas City, MO; Lincoln and Fremont, NE; Kershaw, SC.
(1)J.R. Randall (2-soy specialties))Bob Sullenberger (2-vegetable oil)James Stowell (3)Roy Erickson (4)Don Poboisk (5)Daryl Dahl (7)Thurman Gaitros (8)Charles Bayless (9)Harry Ground.
Hexane solv., Archer 44%, 48%, 49% and 50% soybean meal; defatted, low-fat soy flour, soy concentrate, TVP; Archer soy cooking and salad oil; Refining, hardening, degumming, deodorizing and winterizing. Served by IC, ITC, N&W RR.

ARCHER DANIELS MIDLAND CO. (P)
1021 S. Henderson St., Galesburg 61401, Ph. 309-343-1155; Main office: Decatur, IL.
(7)John Hansen (9)Dick Lee.
Served by ATSF, BN RR.

ARCHER DANIELS MIDLAND CO. (P)
P.O. Box 1249, Granite City 62040, Ph. 618-451-2200.

(5)Bob Sams (8)Art Hrbeck (9)Wes Weber.
Hexane solv., Archer 44% and 49%. Served by A&S RR.

BEST FOODS DIV.
CPC INTERNATIONAL INC. (R)
Chicago 60623, Main office: Englewood Cliffs, NJ.
Refining and deodorizing.

BUNGE CORP. (P)
P.O. Box 113, Cairo 62914, Ph. 618-734-4141.
(5)Wayne Hale (7)Stanley Bullard (8)Brandt Harper (9)Pat Reisner.

BUNGE EDIBLE OIL CO. (R)
P.O. Box 765, Kankakee (Bradley) 60901, Ph. 815-933-0608.
Refining, hydrogenation and deodorizing.

CARGILL INC. (P R)
1660 LaSalle Bank Bldg., Chicago 60603, Ph. 312-855-2914; Refinery at: 122 St. and Torrence Ave., Chicago 60617, Ph. 312-375-6323; Main office: Minneapolis, MN.
(7)Greg Lofstedt (9)Al Tennessen.
Hexane solv., Cargill soybean meal, refined edible and industrial oils. Served by CNW RR.

CENTRAL SOYA (P R SF IP)
Rt. 47 & 9, Box 112, Gibson City 60936, Ph. 217-784-8261; Main office: Fort Wayne, IN.
(9)George R. Walter.
Soybean meal; Centrol lecithin and degummed soy oil; Promosoy, an edible soy concentrate; Response, textured soy concentrate; Centex, textured soy flour. Edible and industrial grades of soy flour; Bontrae, textured soy proteins.

CONTINENTAL GRAIN CO. (P R)
Taylorville 62568, Ph. 217-824-3385; Main office: New York, NY.
(5,8)G. Gawthrop (9)N. Kimpel
Degumming.

DURKEE FOODS DIV., SCM CORP. (R)
P.O. Box 796, Joliet 60434, Ph. 815-423-5511.
Refining and deodorizing.

HUMKO PRODUCTS, KRAFT, INC. (R SF)
Champaign 61823, Ph. 217-356-7213; Main office: Memphis, TN.
Refining and deodorizing cottonseed, soybean, peanut and other vegetable oils.

HUNT-WESSON FOODS INC. (R SF)
4421 W. 31st St., Chicago 60623.
Refining and deodorizing.

LAUHOFF GRAIN CO. (P)
Danville 61832, Ph. 217-446-4770.
(1)Richard Pittelkow (5,6)Larry Friend (8)Jim Freschi (9)Marvin Woods.
Hexane solv. Served by N&W, L&N, MP, CR RR.

PROCTOR & GAMBLE MFG. CO. (R)
1232 W. North Ave., Chicago 60622.

QUINCY SOYBEAN CO. (P)
1900 S. Front St., Quincy 62301, Ph. 217-224-1800.
(1)T.L. Shade (4,6)Paul D. Otto (5)Nick Davis (8)Jim Whitfield (9)Dick Ellerman.
Solvent, Quincy 44% and 48% soybean meal and pellets. Served by NW, BN RR.

RALSTON PURINA CO. (P)
Bloomington 61702, Ph. 309-829-1261; Main office: St. Louis, MO.
(5)D.E. Cordes (9)H.K. Andrews.
Hexane solv., Purina Chows mixed feeds. Served by GM&O, IC, ITC, NKP RR.

J.R. SHORT MILLING CO. (P)
Route 3, Grinnell Rd., Kankakee 60901; Main office: Sears Tower, 233 S. Wacker Dr., Chicago, IL 60606, Ph. 312-876-7070; TWX: 910-632-1459.
(1)J.R. Short Jr. (2)William Hoffman, Bernard H. Sloan, Jeffrey R. Short III (3,4)Thomas W. Uddenberg.
Storage cap. 1,000,000 bu., soy flour for own use. Served by NYC RR.

A.E. STALEY MFG. CO. (P)
P.O. Box 68, Champaign 61823; Main office: Decatur, IL.
(7)D.D. Ehmann (9)M.J. Kerber.
Staley's soybean meal 44% and 49% protein, Staley's soybean mill run.

A.E. STALEY MFG. CO. (P R SF IP)
22nd & Eldorado Sts., Decatur 62525, Ph. 217-434-4411.
(1)R.M. Powers (AgriProducts)P.M. St. Clair (3)E.R. Stanhope (4)L.B. Miller (5)D.W. Miller (6-crude)L.D. Hearn (6-refined)L.P. McNamara (7)R.H. Pothast (8)B.D. Koontz (9-meal)K.A. Robinson (9-oil)L.R. Shepard.
Hexane solv., Staley's soybean meal 44% and 49% protein, HI ProCon 50% protein soybean meal, Staley's soybean mill run, extracted soy flour and grits. Refining, bleaching, hydrogenation and deodorizing.

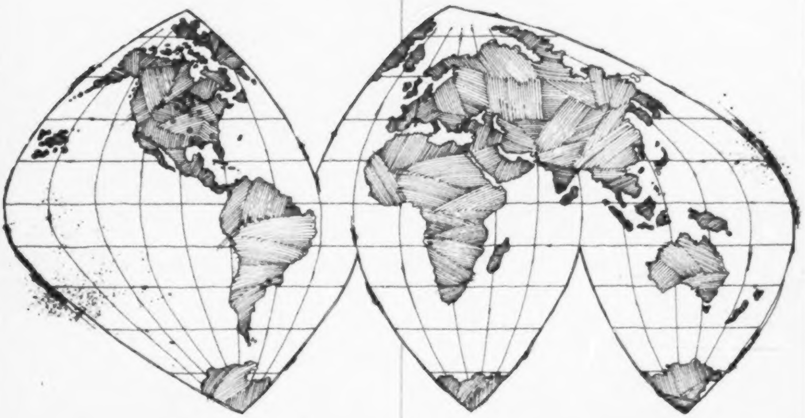
INDIANA

ANGOLA SOYA CO. (P)
424 N. Williams St., P.O. Box 358, Angola 46703, Ph. 219-665-2011.
(Owner)Reginald Hale.
Hexane solv. cap. 5T, storage cap. 1,400 bu., soybean meal, extractions of various specialty items. Served by NYC RR.

BUNGE CORP. (P)
R.R. 2, P.O. Box 113, Logansport 46947, Ph. 219-722-3030.
(5,8)T.D. Caldwell (7)Al Monroe (9)Tom Pfendler.
Served by NW and ConRail RR.

CENTRAL SOYA (P R)
1200 N. Second St., Decatur 46733, Ph. 219-724-2101; TLX: 232-410, INT'L. TLX: 0232-410; Sales office: Fort Wayne, IN.
(9)Larry Justice.
Soybean meal, Centrol lecithin, refined industrial soy oil, refined edible soybean, corn and palm oils, packaged vegetable shortening.

We're Doing Soybean Business Around the World



We do business where you do business. A growing worldwide market for soybeans, oil and meal means a better future for the industry. With 14 U.S. and 8 foreign processing plants, Cargill and its subsidiaries serve the soybean industry worldwide. We're closer to growers and closer to users of oil and meal. As merchants, processors, transporters, exporters and marketers, Cargill is building a better future for soybeans.

Processing plant locations: Osceola, AR · Gainesville, GA · Cedar Rapids, Des Moines, Sioux City and Washington, IA · Chicago, IL · Wichita, KS · Savage, MN · Fayetteville, NC · Sidney, OH · Memphis, TN · Norfolk, VA · Antwerp, Belgium · Ponta Grossa and Mairinque, Brazil · Saint-Nazaire and Brest, France · Amsterdam, The Netherlands · Barcelona and Tarragona, Spain.

For more information write Cargill Processing Group, Box 9300, Minneapolis, MN 55440. 612/475-6102.

CARGILL

PROCESSING GROUP

It's well known that Continental Grain Company is one of America's largest exporters of agricultural commodities.

What's not so well known is that Continental has been a full-fledged U.S. citizen since 1921—the year we established operations in Chicago.

In the mid-forties our headquarters was moved to New York City.

Today, Continental's activities extend into virtually every country—supplying American-produced grains and other commodities to world markets at competitive prices.

This massive marketing job is supported by a network of strategically-located inland and export elevators with advanced grain handling and storage systems, as well as a transportation complex of railroad hopper cars, barges and ocean vessels.

Overall, our interests include the marketing of grains and oilseeds, animal feeds, soybean meal and oil, processed poultry, quality flours and bakery products.

Our most satisfying activity, however, is being able to bring the fruits of American farms to millions of people around the world.

By serving as a bridge between U.S. farmers and their overseas customers, Continental fulfills a basic human need and, at the same time, contributes to the strength and vitality of our economy here at home.

We look forward with enthusiasm to the challenging opportunities for American agriculture throughout the world and are confident of our ability to serve new and expanded markets.

Continental Grain Company, 277 Park Avenue, New York, N.Y. 10172.

Continental Grain

Our market is the world but our home is America.

CENTRAL SOYA (P R SF IP)
1300 Fort Wayne National Bank Bldg., Fort Wayne 46802, Ph. 219-425-5100; TLX: 232410; Plants at: Decatur and Indianapolis, IN; Gibson City, IL; Belmond, IA; Marion, Delphos and Bellevue, OH; Chattanooga, TN; and Utrecht, Netherlands.
(Ch. Bd.,1 & CEO)Douglas G. Fleming (GP-2) Joseph W. Gillespie, C. Lockwood Marine, William W. Wilkinson (2,3)Richard J. Sager (2)R.R. Chappuis, R.T. Clark, H.J. Donnell, Mark O. Flanagan, M.C. Fritzsche, R.B. Gallaway, R.E. Gillis, J.F. Moran Jr., John E. Sampson, Thomas A. Slamecka, T.J. Suelzer, L.D. Williams (2-corp. counsel, asst. sec.) William H. Small (2-controller)R.C. Hammond (asst.-2,3)J.B. Palmer Jr. (4)C.M. Freeland (5)J.D. Cavanaugh.
Processor of soybeans, producer of refined soy proteins, vegetable oil refiner, grain merchandiser, feed manufacturer, consumer food service and industrial foods processor, soybean meal, natural modified and oil-free grades of lecithin, soy flours, soy grits, Centex-textured soy flours, refined industrial soy oils, refined edible soy, corn and palm oils for cooking and salad oil, margarine and shortening, packaged vegetable shortenings.

CENTRAL SOYA (P)
1160 W. 18th St., Indianapolis 46202, Ph. 317-632-8441; Main office: Ft. Wayne, IN.
(9)Charles Garing.
Soybean meal, crude degummed soybean oil, Centrol lecithin.

RALSTON PURINA CO. (P)
Lafayette 47902, Ph. 317-423-1511; Main office: St. Louis, MO.
(5)F.Y. Reichart (9)J.R. Bill.
Hexane solv., Purina Chows mixed feeds. Served by WAB, MKP RR.

A.E. STALEY MFG. CO. (P)
Frankfort 46041; Main office: Decatur, IL.
(7)I.G. Boren (9)W.H. Camp.
Staley's soybean meal 44% and 49% protein, Staley's soybean mill run.

IOWA

AMERICAN GRAIN AND RELATED INDUSTRIES (P)
Manning 51455, Ph. 712-653-3985.
Served by CNW RR.

AMERICAN GRAIN AND RELATED INDUSTRIES (P)
Soybean Processing Div., 1605 19th St. SW, Mason City 50401, Ph. 515-423-4733.
Hexane solv., storage cap. 1,050,000 bu., North Iowa soybean meal. Served by MILW, CNW RR.

BOONE VALLEY CO-OP PROCESSING ASSN. (P)
Eagle Grove 50533, Ph. 515-448-4711.
(1,6,9-gen. mgr.)Keith M. Voigt (3,4)Bernard Moklebust (5)Maurice Sturtz (7)Charles G. Loux (8)Leonard Miller.
Hexane solv., cap. 1,500T, storage cap. 1,700,000 bu., Co-op soybean meal, mixed feeds and pellets. Served by CNW RR.

CARGILL INC. (P)
411 6th St. NE, Cedar Rapids 52406, Ph. 319-364-4121.
(7)Jim Wieser (9)Robert Carlson.
Hexane solv., Cargill soybean meal. Served by MILW RR.

CARGILL INC. (P SF)
1010 10th Ave. SW, Cedar Rapids 52406, Ph. 319-366-8381; Main office: Minneapolis, MN.
(7)Tom Richardson (9)Tony Cahill.
Hexane solv., Cargill soybean meal and soy proteins. Served by CR, IC RR.

CARGILL INC. (P R)
3030 SE Granger, Des Moines 50306, Ph. 515-263-3115.
(5)Curtis Twedt (7)Keith Kuhlman (9)Bill Lowe.
44% and 50% soybean meal, refined edible and industrial vegetable oils. Served by DMU RR.

CARGILL INC. (P)
980 Clark St., Sioux City 51102, Ph. 712-258-0174; Main office: Minneapolis, MN.
(7)Jeffrey Stanley (9)Douglas Debelak.
Hexane solv., Cargill soybean meal and pellets. Served by IC RR.

CARGILL INC. (P)
N. 15th Ave. & 3rd St., Washington 52353, Ph. 319-653-2196; Main office: Minneapolis, MN.
(7)John Zoss (9)Bill Matson.
Hexane solv., Cargill soybean meal and pellets. Served by RI RR.

CENTRAL SOYA (P)
Hwy. 69 S, P.O. Box 9, Belmond 50421, Ph. 515-444-3236; Main office: Fort Wayne, IN.
(9)Ken Oltman.
Soybean meal, Centrol lecithin, crude degummed soy oil.

FARMLAND INDUSTRIES (P)
P.O. Box 200, Sergeant Bluff 51054, Ph. 712-943-4282; TWX: 910-968-1757; Main office: 3315 N Oak Trafficway, Kansas City, MO 64116.
(1)John F. Anderson (2)Donald M. Chartier (3)W. Gordon Leith (4)Earl L. Knauss (5)Rick Hansen (6)Charles McCauley (7)Art Blanco (8)Rich Lee (9)Bill Lester.
Solvent cap. 2,000T, storage cap. 3,250,000 bu., co-op 44% and 48½% soybean meal, also mixed feeds. Served by CNW RR.

LAND O'LAKES INC. (P)
5 Central Ave., Fort Dodge 50501, Ph. 515-573-8111; Main office: Minneapolis, MN.
(2)Ken McQueen (5)Gary Errington (6,9)George Cox (8)Douglas Legg.
Hexane solv. Served by IC, CNW RR.

LAND O'LAKES INC. (P)
Box 220, Sheldon 51201, Ph. 712-324-2531; Main office: Minneapolis, MN.
(2,9)Ken McQueen (5)Mark Thompson (6,8) Oscar Benson (8)Joe Sawyer.

Solvent cap. 1,000 T, storage cap. 1,500,000 bu. Served by IC, MILW, CNW RR.

RALSTON PURINA CO. (P)
Iowa Falls 50126, Ph. 515-648-2591; Main office: St. Louis, MO.
(5)A.E. Fegler (7)K.O. Mardick (9)T.L. Williams.
Hexane solv., Purina Chows mixed feeds. Served by RI, IC, CNW RR.

A.E. STALEY MFG. CO. (P)
Drawer C,E, 14th St. Sta., Des Moines 50316; Main office: Decatur, IL.
(7)C.H. Hagwood (9)P.L. Niehaus.
Staley's soybean meal 44% and 49% protein, Staley's soybean mill run.

WEST BEND ELEVATOR CO. (P)
West Bend 50597, Ph. 515-887-7211.
(1)H.P. Mertz (2)Ervin J. Banwart (3,4)Carl F. Heldt (5,6,8,9)Fred McKim (7)Timothy Kloster.
3 exp., cap. 39T, storage cap. 2,700,000 bu. Old Process soybean meal and mixed feeds. Served by RI RR.

WEST CENTRAL COOP. (P)
Ralston 51459, Ph. 712-667-3200.
(1)Deane Remsburg (2)Dean Thaler (3,4)James Conner (5)Thomas Feldman (6,8,9)Wayne Seaman (7)John Thornton.
4 screw pr., cap 60T, storage cap. 6,500,000 bu., Wesenco soybean meal, mixed feeds and pellets. Served by CNW RR.

KANSAS

ARCHER DANIELS MIDLAND CO. (P)
P.O. Box 191, Fredonia 66736, Ph. 316-378-2102.
(5,8)Kirk Hartnett (7)Bob Miller (9)Ron Price.
Hexane solv., Archer 44% and 49% soybean meal. Served by ATSI, MP, SLSF RR.

BUNGE CORP. (P)
E. 5th Ave., P.O. Box 518, Emporia 66801, Ph. 316-342-7270.
(5)Robert H. Wise (7)Claude Rose (8)Tom Schmitt (9)Jack Thiessen.
Served by ATSF RR.

CARGILL INC. (P)
1501 N. Mosley, Wichita 67214, Ph.316-267-8800.
(9)George Landsverk.
44% and 50% soybean meal and pellets. Served by MOP RR.

PRODUCERS COOPERATIVE ASSN. (P)
Box 265, Girard 66743, Ph. 316-724-8241.
(1)Marvin Green (2)Raymond Johnson (3,4)James S. Mitchell (5,6,8,9)C.W. Scammell.
2 screw pr., cap 40T, storage cap. 1,150,000 bu., Producers 41% soybean meal, Producers and Co-Op Open Formula mixed feeds and pellets. Served by SLSF, ATSF RR.

KENTUCKY

DURKEE FOODS DIV. SCM CORP. (R)
1303 S. Shelby St., Louisville 40217, Ph. 502-635-7441.
Refining and deodorizing.

OWENSBORO GRAIN CO. (P)
Owensboro 42301, Ph. 502-926-2032.
(1)Robert E. Hicks (2)Henry E. O'Bryan (3)James L. Monarch Jr. (7)Raymond Schrecker (8)Kelly Price.
Solvent cap. 1,000T, storage cap. 3,000,000 bu., Ograco 44% and 49% solv. soybean meal.

RALSTON PURINA CO. (P)
Soybean Div., Louisville 40217, Ph. 502-637-4761.
(5) R.J. DeFriest (7) J.B. Stinson (9) S.L. Colthurst.

LOUISIANA

BUNGE CORP. (P)
Destrehan 70047, Ph. 504-721-6291; Main office: One Chase Manhattan Plaza, New York, NY 10005.
(5,8)Archie Gwathmey (9)Dick Farmer.
Served by IC RR.

LOU ANA FOODS INC. (R)
P.O. Box 591, Opelousas 70570, Ph. 318-948-6561; TLX: 58-6645 (LAF OPLS); Plant at: 731 N. Railroad Ave.
Refining, bleaching, deodorizing and winterizing, bulk, institutional and retail sizes.

MARYLAND

PERDUE INC. (P)
P.O. Box 1537, Salisbury 21801, Ph. 301-742-7161.
(1)Donald W. Mabe (2)Thomas R. Shelton (4)Pelham B. Lawrence (5,6,8)Seth C. Taylor (7)Harold T. Shockley (2,9)Sewell L. Spedden.

MINNESOTA

ARCHER DANIELS MIDLAND CO. (P)
P.O. Box 728, Mankato 56001, Ph. 507-625-7947.
(5,8)Dave Bednar (7,9)Leigh Paulsen.
Hexane solv., Archer 44% and 48% soybean meal. Served by CNW, MILW RR.

CARGILL INC. (P SF IP)
P.O. Box 9300, Minneapolis 55440; Plants at: Osceola, AR; Gainesville, GA; Chicago, IL; Cedar Rapids, Des Moines, Redfield, Sioux City and Washington, IA; Wichita, KS; Savage, MN; Fayetteville, NC; Sidney, OH; Memphis, TN and Norfolk, VA.
(1)M.D. McVay (2)D.H. Leavenworth, J.R. Spicola (3)C.J. Anderson (4)Benjamin Jaffray.

CARGILL INC. (P)
Savage 55378, Ph. 612-894-3190; Main office: Minneapolis, MN.
(7)John Ryan (9)Tom Charette.
Hexane solv., Cargill soybean meal. Served by MN&S RR.

HONEYMEAD PRODUCTS CO. (P R SF IP)
P.O. Box 29, Mankato 56001, Ph. 507-625-7911.
(1-gen. mgr.)L.K. Rasmussen (2-sr. exec.)Ray Lindquist (2,3)Harold Groh (2 exec.,6)Stanley V. Eichten (2-sr.,8)Wayne Umhoefer (2,5)Gaylen Ferley (7)C. Herbst (2-sr,9)James Amile.
Hexane solv. cap. 2,400T, storage cap. 3,000,000 bu., Honeymead soybean meal, refining, deodorizing and hydrogenating. Served by CNW, MILW RR.

LAND O'LAKES SOYBEAN DIVISION (P)
Dawson 56232, Ph. 612-769-4386; TLX: 290838.
(2-grp.)Joe Givens (2-operations)H.G. Jordheim (2-planning & food products)D.E. Crisp (5)Harold Larson (6,8)Dave Owen (7)L. Kockelman.
Hexane solv., cap. 1,500T, storage cap. 3,000,000 bu., Dawson soybean meal. Served by CNW RR.

SPENCER KELLOGG DIV. TEXTRON INC. (R)
Minneapolis 55414, Ph. 716-852-5850; Main office: Buffalo, NY.
Refining.

MISSISSIPPI

ANDERSON, CLAYTON & CO. (P)
Oilseed Processing Div., P.O. Box 1410, Jackson 39205, Ph. 601-948-5880; Main office: Phoenix, AZ.
(7)R.R. Rush (9)Jim Brady.
Solvent, Paymaster 44% and 48½% protein soybean meal, soybean mill run. Served by IC, GM&O RR.

ANDERSON, CLAYTON & CO. (P)
Oilseed Processing Div., P.O. Box 1378, Vicksburg 39180, Ph. 601-638-3824; Main office: Phoenix, AZ.
(Dist. mgr. operations)D.K. Smith (5)Ray Weir (7)Noel M. Jackson (8)Wayne Pierce.
Solvent, Paymaster 44% protein meal, soybean mill run. Served by IC RR.

GOLD KIST SOY. (P R)
Box 249, Marks 38646, Ph. 601-326-2411.
(Complex mgr.)W.P. Hudson (6)C.N. Lindsey (8)D.H. Price (9)George Howell (ref.-mgr.)Rick Shobaken.

MISSISSIPPI COTTONSEED PRODUCTS CO. (P)
Greenwood 38931.
(7)J.H. Wilburn (9)E.C. Mason.
Solvent cap. 100T, storage cap. 250,000 bu., soybean operations 10,000 T. Served by IC RR.

MISSISSIPPI COTTONSEED PRODUCTS CO. (P)
Grenada 38901.
(9)C.C. Perry.
2 exp. cap. 50T, storage cap. 3,000T., soybean operations 2,000T. Served by IC RR.

MISSISSIPPI COTTONSEED PRODUCTS CO. (P)
Hollandale 38748.
(7)W.E. Campbell (9)Hal Harris.
Solvent cap. 100T, storage cap 250,000 bu., soybean operations 7,000T. Served by IC RR.

MISSISSIPPI COTTONSEED PRODUCTS CO. (P)
1016 Plaza Bldg., Jackson 39205; Crushing mills: Greenwood, Grenada, Hollandale and Jackson, MS.
(1)H.E. Covington (2)J.B. Perry Jr. (3,4)G.C. Perry.

SOUTHERN COTTON OIL CO. (P)
Div. of ADM, Cottonseed and Soybean Plant, Fourth Street Extended, Clarksdale 38614, Ph. 601-624-2571.
James Payne.

YAZOO VALLEY-MINTER CITY OIL MILL INC. (P)
P.O. Box 1320, Greenwood 38930, Ph. 601-453-4312.
(Ch.)Aven Whittington (Vice Ch.)R.A. Carson (1-gen. mgr.)T.S. Shuler (2,4)Robert H. Howard (3)George W. Smith Jr.
Plant solv. cap 600T, 44% soybean meal. Served by C&G RR.

MISSOURI

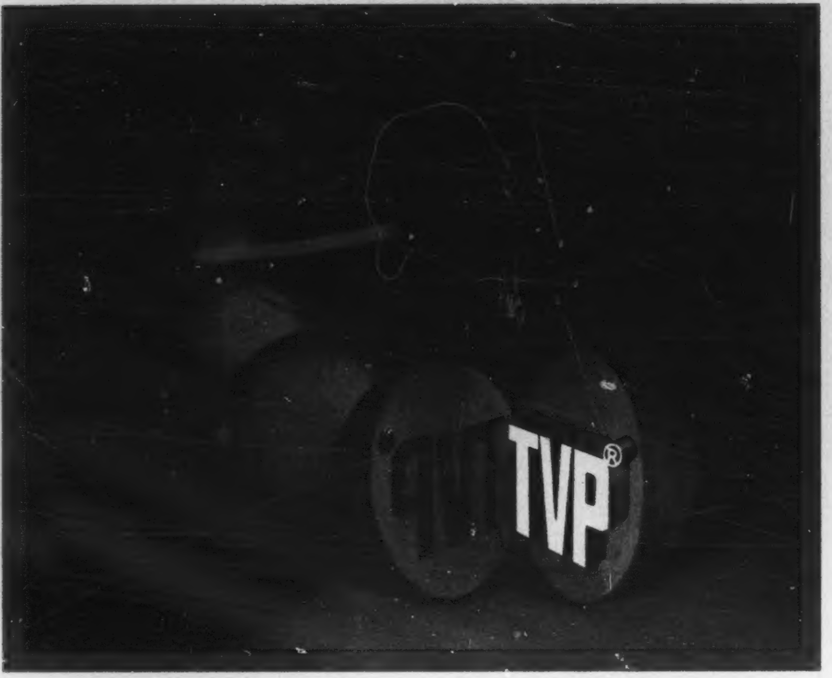
ARCHER DANIELS MIDLAND CO. (P)
200 W. 19th Ave., N. Kansas City 64116, Ph. 816-221-2117.
(5,8)Everett Fletcher (7,9)Terry Gunter.
Solvent ext., Archer 44% and 47% soybean meal. Served by BN RR.

FARMLAND INDUSTRIES (P R SF)
P.O. Box 427, St. Joseph 64502, Ph. 816-233-6161; TWX: 910-777-7189; Main office: 3315 N. Oak Trafficway, Kansas City 64116.
(1)John Anderson (2)Donald M. Chartier (3)W. Gordon Leith (4)Earl L. Knauss (5)Wayne Stegman (6,8)Ed Stigall (7)Max Tetlow (9)John A. Dotson.
Hexane solv. cap 950T, Co-op 44% and 48½% soybean meal, soybean flour and grits, degumming. Served by MP, BN, ATSF, CNW, UP RR.

M.F.A. GRAIN MARKETING DIV. (P R)
Div. Missouri Farmers Assn. Inc., Mexico 65265, Ph. 314-581-4195; TWX: 910-760-1527.
(1)Erick Thompson (2)Bud Frew (3)Ormal Creach (5)William King (6,9)Kermit F. Head (7)John A. Botkin (8)Max Jamison.
Solvent cap. 1,500T, storage cap. 3,100,000 bu., MFA 44% and 49% soybean meal, soybean mill run and soy lecithin, degumming. Served by N&W, ICG, BN RR.

PVO INTERNATIONAL INC. (R SF IP)
3400 North Wharf St., St. Louis 63147, Ph. 314-622-0200.
Refining and deodorizing.

RALSTON PURINA CO. (P)
2334 Rochester Ave., Kansas City 64120, Ph. 816-483-9888; Main office: St. Louis, MO.
(5)W.F. Kuckuck (7)C.G. Kuhlman (9)R.K. Zimmerman.
Purina Chows mixed feeds.



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Checkerboard Square, St. Louis 63188; Plants at: Lafayette, IN; Bloomington, IL; Iowa Falls, IA; Kansas City, MO; Memphis, TN; Louisville, KY and Raleigh, NC.
(2)E.J. Cordes (6)A.I. Gleason (8)W.W. Sims.
Purina Chows mixed feeds.

NEBRASKA

ARCHER DANIELS MIDLAND CO. (P)
130 N. Broad, Fremont 68025, Ph. 402-721-5670.
(5,8)Randall Neumayer (7,9)Larry Letterman.
Hexane solv., Archer 44%. Served by CNW RR.

ARCHER DANIELS MIDLAND CO. (P R)
P.O. Box 29268, Havelock Sta., Lincoln 68529, Ph. 402-464-9131.
(5,8)Tony Porter (7)Charles Hagood (9)Jim Yeates.
Hexane solv., Archer 44% and 47% soybean meal, refining, hardening, degumming and deodorizing.

GRAIN STATES SOYA INC. (P)
P.O. Box 157, West Pointe 68788, Ph. 402-372-2429.
(1)Paul Hugo (2)Clifford L. Johnson (3)Aelred Hugo (4)John Lubker Jr. (5,6,8)Mark R. Knobbe.
4 French screw pr., cap 100T, storage cap. 152,000 bu., 41% old process soybean meal, custom mixed feeds and pellets. Served by CNW RR.

NEW JERSEY

BEST FOODS DIV.
CPC INTERNATIONAL INC. (R)
Bayonne 07002.
Refining and deodorizing.

BEST FOODS DIV.
CPC INTERNATIONAL INC. (R SF)
International Plaza, Englewood Cliffs 07632, Ph. 201-894-4000; Plants at: Bayonne, NJ; Chicago, IL; San Francisco and Sante Fe Springs, CA.
Refining and deodorizing.

HUNT-WESSON FOODS INC. (R SF)
160 E. 22nd St., Bayonne 07002.
Refining and deodorizing.

SPENCER KELLOGG DIV.
TEXTRON INC. (R)
Edgewater 07020, Ph. 716-852-5850; Main office: Buffalo, NY.
Refining.

NEW YORK

CONTINENTAL GRAIN CO. (P)
277 Park Ave., New York 10017, Ph. 212-826-5100; Plants at: Guntersville, AL; Taylorville, IL and Cameron, SC.
(2)J.G. Reed (6)D. Provda (8)G. Bryant.

LEVER BROTHERS CO. (R SF)
390 Park Ave., New York 10022; Plant at: Los Angeles, CA.
Refining and deodorizing.

SPENCER KELLOG DIV.
TEXTRON INC. (P IP)
Buffalo 14240, Ph. 716-852-5850; Plants at: Minneapolis, MN and Edgewater, NJ.
Refining.

NORTH CAROLINA

CARGILL INC. (P R)
P.O. Box 2309, Fayetteville 28302, Ph. 919-483-4631; Main office: Minneapolis, MN.
(7)Jim Roehr (9)Flint Harding.
44% and 50% soybean meal, refined, edible, industrial, and crude soy oil. Served by ACL RR.

GURLEY'S INC. (P)
404 E. Preston St., P.O. Box 388, Selma 27576, Ph. 919-965-2302; 800-672-8131; 800-334-9631.
(1,6,9)R.G. Gurley (2,5,6,8)Raymond Gurley II, Jackie Whitley (3,4)Carl R. Gurley Sr. (7)Bob Gurley.
Crown and Anderson ext., solvent cap. 300T, storage cap. 950,000 bu., Gurley's 44% soybean meal, 47% Hy Protene soybean meal. Served by SCL RR.

PLANTERS OIL MILL INC. (P)
P.O. Drawer 2507, Rocky Mount 27801, Ph. 919-442-0193.
(1)Ron Garwood (2,6)W.L. Adcock (3,4)Murphy Evans (5,8)W.A. House (7)Dave Mitkos.
Solvent cap. 200T, storage cap. 650,000 bu., Planters soybean meal. Served by SCL RR.

RALSTON PURINA CO. (P)
Raleigh 27601, Ph. 919-828-4491.
(7)D.G. Torgerson (9)D.T. Fink.

OHIO

CAPITAL CITY PRODUCTS CO. (R SF IP)
Div. Stokely-Van Camp Inc., 525 W. 1st Ave., P.O. Box 569, Columbus 43216, Ph. 614-299-3131; TLX: 245-494.
Refining, bleaching, hydrogenating, deodorizing and winterizing.

CARGILL INC. (P)
2400 Industrial Blvd., Sidney 45365, Ph. 513-498-4551.
(7)Al Wilcox (8)Cornelius Boersma.
Hexane solv., Cargill soybean meal. Served by Conrail and C&O RR.

CENTRAL SOYA (P R)
P.O. Box 369, Goodrich Rd., Bellevue 44811, Ph. 419-483-5340; Sales office: Fort Wayne, IN, Ph. 219-425-5373; TLX: 232-410, INT'L. TLX: 0232-410.
(9)Leonard Morrison.
Soybean meal, Centrol and Centrolex lecithins, crude degummed soy oil and refined industrial soy oils.

DURKEE FOODS DIV., SCM CORP. (R SF)
900 Union Commerce Bldg., Cleveland 44115, Ph. 216-344-8000. Operations conducted through Durkee Famous Foods Industrial Foods Group; Plants at: Joliet, IL and Louisville, KY.
Oil refining and deodorizing.

PROCTER & GAMBLE CO. (R SF IP)
P.O. Box 599, Cincinnati 45201; Refinery at: 5201 Spring Grove Ave., Ivorydale, Cincinnati 45217.

A.E. STALEY MFG. CO. (P)
Fostoria 44830; Main office: Decatur, IL.
(7)R.A. Dixon (9)D.D. Houghton.
Staley's soybean meal 44% and 49% protein; Staley's soybean mill run.

OKLAHOMA

COLE GRAIN CO. (P)
919 S. Cherokee, P.O. Box 1289, Muskogee 74401, Ph. 918-687-7565.
(1,5)J.D. Cole (2,8)D.R. Cole (3,4)Olivia Cole (7)Dan Bryan.
2 exp., cap. 70T, storage cap. 400,000 bu. Cole Feeds soybean meal, mixed feeds and alfalfa pellets. Approx. soybean operations 10,000 to 12,000T. Served by MKT, TP, SLSF RR.

PRODUCERS COOPERATIVE OIL MILL (P)
P.O. Box 26907, Oklahoma City 73126, Ph. 405-232-7555.
(Gen. mgr.)T.W. Detamore.
Crown solv., cap. 500T, storage cap. 800,000 bu. Pellets. Served by SLSF RR.

WILSON FOODS CORPORATION (R)
Lincoln Plaza, 4545 N. Lincoln, Oklahoma City 73105, Ph. 405-525-4545; TLX: 747-249.

PENNSYLVANIA

C.F. SIMONIN'S SONS INC. (R SF)
Tioga & Belgrade St., Philadelphia 19134, Ph. 215-426-2300.
Refining and deodorizing.

SOUTH CAROLINA

ARCHER DANIELS MIDLAND CO. (P)
427 N. Hampton, Kershaw 29067, Ph. 803-475-3751.
(7,9)Tommy Sims.
Hexane solv., Archer 44% and 48% soybean meal. Served by SOU RR.

CONTINENTAL GRAIN CO. (P)
Cameron 29030, Ph. 803-823-2211; Main office: New York, NY.
(5,8)R. Arrant (9)John Sheperd.

HARTSVILLE OIL MILL (P R SF)
Fifth St., Hartsville 29550, Ph. 803-332-1571.
(1,4)Edgar H. Lawton Jr. (2)R.R. Coker (2,5,6,8)R.A. Koppein (2,3,9)J.J. Lawton (7)Charles Sullivan.
Hartsville 44% and 50% soybean meal. Produce refined salad oil. Refining, deodorizing, hard oils, hydrogenated products and industrial oils.

SOUTHERN SOYA CORP. (P)
P.O. Box 727, Estill 29918, Ph. 803-625-2711.
(1)Stiles M. Harper (5,6,8,9)J.W. Tyler, R.P. Padgett (7)H.R. Youmans.
French solv., cap. 350T, storage cap. 2,250,000 bu., 44% and 49% soybean meal. Soybean operations 3,500,000 bu. Served by SCL RR.

TENNESSEE

BUNGE EDIBLE OIL CO. (R)
P.O. Box 7068, Chattanooga 37410, Ph. 615-821-1545; Main office: Kankakee (Bradley), IL.
Refining, hydrogenating and deodorizing.

CARGILL INC. (P)
P.O. Box 1838, Memphis 38101, Ph. 901-775-3700.
(7)Harry Bryant (9)Robert W. Drake.
Hexane solv., Cargill soybean meal. Served by SLSF, IC, MP RR.

CENTRAL SOYA (P R)
Judd Rd., P.O. Box 5067, Chattanooga 37406, Ph. 615-629-7341; Main office: Fort Wayne, IN.
(9)Larry Horn.
Soybean meal, Centrol lecithin, crude soy oil, refined industrial and edible vegetable oils.

HUMKO PRODUCTS, KRAFT INC. (R SF)
Whitestation Towers, P.O. Box 398, Memphis 38101, Ph. 901-766-2100.
Refining and deodorizing of cottonseed, soy, peanut and other vegetable oils.

HUNT-WESSON FOODS INC. (R SF)
P.O. Box 1759, Memphis 38102.
Refining and deodorizing.

NASHVILLE OIL MILL CORP. (P)
410 Chestnut St., Nashville 37202.
(1)Fred Gray (2,5,6,9)Douglas Rainwater (3,4)Allen Searson (7)Roy Fleetwood (8)Jerry Walrond.
Blaw-Knox solv., cap 200T, storage cap. 525,000 bu. Served by N&C, L&N RR.

RALSTON PURINA CO. (P)
Soybean Div., Memphis 38112, Ph. 901-327-8447.
(5)R.M. Joiner (7)B.K. Robinson (9)J.K. Sartain.

SOUTHERN COTTON OIL CO. (P)
Div. of Archer Daniels Midland Co., Cottonseed and Soybean Plant, 2782 Chelsea Ave., Memphis 38108, Ph. 901-452-3151.
C.M. McCalla.

WEST TENNESSEE SOYA MILL INC. (P)
Tiptonville 38079, Ph. 901-253-7162 & 7211.
(1)W.B. Keiser (2)L.O. Brayton Jr. (3,4)Howard Vaughn (5,6,8,9)Tyler Terrett (7)Dave Tubbs.
Allis-Chalmers hexane solv., cap. 150T, storage cap. 1,200,000 bu., 44% protein solv. ext. soybean meal. Soybean operations 40,000T. Served by IC RR.

TEXAS

ANDERSON, CLAYTON & CO. (R)
Oilseed Processing Div., P.O. Box 521, Abilene 79604, Ph. 915-672-3271.

ANDERSON CLAYTON FOODS (R SF)
P.O. Box 226165, Dallas 75266, Ph. 214-387-1224; TLX: 732242.

ANDERSON CLAYTON FOODS (R)
1201 E. Pecan St., Sherman 75090, Ph. 214-892-2111.

BROOKSIDE DIV.,
SAFEWAY STORES INC. (R SF)
Drawer C, 1405 W. Washington, Denison 75020; Main office: Walnut Creek, CA., Ph. 415-944-4527.
Refine and deodorize soy and cottonseed oils.

BUNGE EDIBLE OIL CO. (R)
P.O. Box 265, Fort Worth 76101, Ph. 817-625-2331; Main office: Kankakee (Bradley), IL.
Refining, hydrogenating and deodorizing.

NE-TEX COOPERATIVE OIL MILL (P)
P.O. Box 139, Wolfe City 75496, Ph. 214-496-2281.
(1)Emory Knapp (2)Roland Wieland (3)Stanley Shaffer (4,5,6,8,9)B.W. Heath (7)Jimmy Hester.
Solvent cap. 250T, storage cap. 650,000 bu., Ne-tex soybean meal, mixed feeds and pellets. Approx. soybean operations 15,000T. Served by ATSF RR.

PLAINS COOPERATIVE OIL MILL INC. (P)
P.O. Box 1889, Lubbock 79408, Ph. 806-747-3434.
(1)M.J. Williams (2)Keith Streety (3)Jack Sebastian (4)Wayne Martin (5,6,8)Bruce Crosslin (7)Bob Thomas (9-Gen. mgr.)Edward Breihan.
Solvent cap. 1,200T, storage cap. 500,000 bu., Plainsman soybean meal. Soybeans part-time. Served by FW&D RR.

PROCTOR & GAMBLE MFG. CO. (R)
P.O. Box 225118, Dallas 75265.

SHERMAN OIL MILL (P)
Affiliate of Chickasha Cotton Oil Co., Sherman 75090, Ph. 214-892-9171; Other location: Fort Worth, Ph. 817-732-8595.
(1)Jack N. Greenman (2)Rex Steele (3,4)J.W. Ward (5,6,8)J.D. Morton (7)Gilford Lyday (9)Reed Bell.
7 screw pr., solv., cap. 240T (cottonseed) and 200T (soybeans). Served by SP,CB,SLSF, MKT RR.

VIRGINIA

CARGILL INC. (P)
P.O. Box 7506, Chesapeake 23324, Ph. 804-545-8461; Main office: Minneapolis, MN.
(7)Ray Osberg (9)John March.
Hexane solv., Cargill soybean meal. Served by N&PB RR.

SINCE 1893

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Bunge Corporation has elevators strategically located throughout soybean country in Arkansas, Mississippi, Louisiana, Kentucky and Tennessee with district headquarters in Greenville, Mississippi, and Osceola and Pine Bluff, Arkansas.

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ARGENTINA

SANTO PIPO TUNGOIL SOC. COOP. LTDA. (P SF)
Florida 142, Piso 3-A, Buenos Aires, Ph. (Santo Pipo) 17.
(1)Juan Girsberger (2)Dr. Raul V. Comolli (3)Lorenzo W. Zimmerman (4)Luis Romeo Barrios (6,8)Fed. Coop. Agr. Misiones (7)Gunter Schultz (9)Ing. Victor V. Borkoski.
2 exp., cap. 180T, DeSmet solvent cap. 180T, storage cap. 25,000T, soy protein concentrate, flakes and meal. Served by Ferrocarril Nacional General Urquiza.

SANTO PIPO TUNGOIL SOC. COOP. LTDA. (P SF)
Casilla Correo 6, Santo Pipo (MS) 8, Ph. 17.
(1)Juan Girsberger (2)Raul V. Comolli (3)Lorenzo W. Zimmerman (4)Alejandro C. Stockar (7)Otto Pigerl (9)Carlos Clerc.
DeSmet solvent cap. 240T, storage cap. 4,000T, soybean meal and soy flour, manufactures mixed feeds and pellets, approx. soybean operations 30,000T.

AUSTRALIA

BARTON ADDISON & SONS PTY. LTD. (P SF)
18 Gray St., P.O. Box 51, Kogarah N.S.W., Ph. 587-0457.
(1)J. Ackroyd.
3 exp., cap. 10T, Addison soybean meal and soy flour. Served by NSW RR.

MEGGITT LIMITED (P)
44 Liverpool Rd., Summer Hill, Sydney N.S.W., Ph. 798-7555; TLX: AA24510; Plants at: Brisbane, Q.L.D.; Melbourne, Vic.; Sydney, N.S.W.
(Chm. of dir.)A.W. Barr (Chief exec.)A.D. Rector (3-finance dir.)O.S. Dixon (mkt. mgr.)W. Burden(tech. mgr.)B. Lathlean.
3 solvent extraction plants, cap. 950MT/day, storage cap. 850,000, approx. soybean operations 80,000 MT.*

NORTHWEST VEGETABLE OILS PTY. LTD. (P R)
Subsidiary of Cargill Inc., Minneapolis, MN; Baranbar St., Narrabri West N.S.W. 2391, Ph. 067-92-2711; TLX: 66564.
(Chm. of dir.)H.D. Boone (Gen. mgr.)D. Bacon-Hall (Asst. gen. mgr.)C. Creal (Merchant)I. Hillam (7)J. Grayson (Finance mgr.)J.F. Groenendyk.
Prepress combined with Crown solvent extraction, 500MT/day, storage cap. 46,000MT, high protein soybean meal, crude degummed and alkali refined soy oil, approx. soybean operations 65,000MT, 40% per annum, processes soybeans, cottonseeds, sunflowers and safflowers.*

SOUTHERN PACKERS PTY. LTD. (R SF IP)
300 Ingles St., Port Melbourne 3207, Ph. 644338; TLX: AA337-30.

SOY PRODUCTS OF AUSTRALIA PTY. LTD. (P SF)
69 Power Rd., Bayswater, P.O. Box 66, Victoria, Ph. 72-91738.
(3,4)B. Smith (5-mgr. dir)V.R. Smith (7,9)A.R. Smith.
Storage cap. 20,000 bu., manufactures SOYVITA full-fat soy flour, approx. soybean operations 50%. Served by Victorian RR.

AUSTRIA

KUNER (R SF)
Div. Osterreichische Unilever GmbH, Rosengasse 4, A 1011 Wien, Ph. 0222-6619; TLX: 07-4080.
Margarine, edible fats and foods.*

VEREINIGTE FETTWARENINDUSTRIE GmbH & CO. KG. (R)
Vogelweiderstr 71-73, A-4600 Wels, Ph. 05222-36771-16; TLX: 25528; Plants at: Innsbruck, Vienna and Wels.
Refiner, confectioning of vegetable oils and hardened fats.*

BELGIUM

N.V. VAMO MILLS (P)
Prins Albertlaan 12, Izegem, Ph. 051-30-22-22; TLX: 81622.

Plants at: Gent, Izegem and Merksem.
(1)Raymond Vandemoortele (2)Jean Vandemoortele (5,6,8)Fred Deroost.
Hexane solvent cap. 5,100T, storage cap. 2,700,000 bu. Served by NMBS RR.

N.V. CARGILL (P)
Affiliate of Cargill, Inc., Minneapolis, MN, Muisbroeklaan, Kaai 506, Antwerp, Ph. 425080; TLX: 33761.
(1)Peter Brees (2)Simon Oosterman (4)Joseph Aerts (6,8)Charlie v/d Velde (7)Eric Leys (9)Willem v/d Hoeven.
Solvent cap. 1,500T, storage cap. 30,000T, Cargill soybean meal. Served by Belgian RR.*

SCALDISWERKEN RUIEN N.V. (P)
17 Avelgemstraat, B9690 Kluisbergen-Ruien, Ph. 055-388412.
(1,6)Albert Windels.
12 exp. storage cap. 50,000 bu., cap. 1T, SCALDIS mixed feeds. Served by Oudenaarde Herseaux RR.*

BOLIVIA

CIA OLEAGINOSA LTDA. (P R)
KM 8½ a Quillacollo, Casilla 382, Cochabamba, Ph. 40239.
(9)Jose H. Guzman.
3 exp./screw press cap. 18T, batch solvent cap. 15T, refinery 10T, soybean and cottonseed storage cap. 3,000T, approx. soybean operations 1,500MT/year and cottonseed operations 1,500MT/year. Served by Cochabamba-Orur.

FABRICA DE ACEITE VILLAMONTES RAFAEL DEHEZA (P R SF)
Villamontes Tarija, Affiliate of Corporacion Boliviana de Fomento, P.O. Box 1124, La Paz., Ph. 2495750877 (CBF); TLX: CORFOMENTO.
(4)Lic. Franklin Anaya Vasquez (5,6,8)Ing. Jorge Rada Arroyo (7)Ing. Benjamin Grossman.
Solvent cap. 200T, storage cap. 18,000MT, EL REY soy oil, Soyflour CBF, approx. soybean operations 6,000MT/year. Served by Santa Cruz, Villamontes Yacuiba Pocitos (Argentina) RR.

INDUSTRIAS DE ACEITE S.A. (P SF)
P.O. Box 1759, Santa Cruz; Office at: Ballivian 262, Ph. 47008.
(1)J.A. Gonzales (2)R. Verona (4)E. Anaya (6)O. Barriga (7)A. Malatesta (9)O. Unzueta.
3 exp./screw press, cap. 60T, storage cap. 10,000MT, soy flour, approx. soybean operations 15,000MT/year. Served by Bolivian RR.

BRAZIL

ADM DO BRAZIL TVP-S.A. (P R SF IP)
Cx. Postal 632, CEP 13100, Campinas, S.P., Ph. 2-09-89; TLX: 019-1211.
(1)J. Lindsay (2)T. Moore (4)H. Ikeda (5)L. Camara (9)Luzer Manczyk.
Crude and refined oil, meal, textured vegetable protein and flour.

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Estr. do Aeroporto s/n, Cx. Postal 61, Cruz Alta, RGS; Other locations: Rua da Consolacao; 155 Birigui, S.P., Rua Santa Terezinha, 1164, Londrina, P.R.; Av. Jose Jorge Estevam s/n, S.P.

BRASWEY S.A.
INDUSTRIA E COMERCIO. (P R)
Rua Enxovia, 423 Sto. Amaro, 04711 Sao Paulo, Ph. 548-5144; TLX: 011-22427; CABLE: BRASWEYCO.
(1)Daniel Shu Chi Wei (exec. dir.)Benedicto Vaneziani, Emily Chen Su Yu Wei, Guengi Hokama, Joaquim Miro Neto, Liu Shun Ku, Yasuo Ogino.
Cap. 3,500T, refinery cap. 200T, storage cap. 200,000T, Trademark: OUROAZUL.

CIA. SWIFT DO BRAZIL S.A. (P)
Campinas, S.P., Ph. 3921; Affiliate of International Packers Ltd.; Main office: Rua Formosa, 367, Ninth floor, Sao Paulo.
(7)F.T. Dawe (8)E.F. Roman (9)R.H. Welker.
2 high-speed exp. cap. 180T, solvent cap. 150T, storage cap. 400,000 bu., SWIFT-PLATE soybean meal, SWIFT mixed feeds, approx. soybean operations 8,000T. Served by Paulista-Mogiana-Sorocabana RR.

CIA. SWIFT DO BRAZIL S.A. (P)
Rio Preto, S.P., Ph. 1711; Affiliate of International Packers Ltd.; Main office: Rue Formosa, 367, Ninth floor, Sao Paulo.
(7)F.T. Dawe (8)E.F. Roman (9)R.H. Welker.
4 high-speed exp. cap. 80T, storage cap. 300,000 bu., Swift-Plate soybean meal, approx.soybean operations 2,000T to 5,000T. Served by Araraquara RR.

COMPANHIA MOGIANA
DE OLEOS VEGETAIS. (P)
Av. Sete No. 2300, Orlandia, Sao Paulo, Ph. 016-726-2516 (PABX-5 troncos); TLX: 0166445 (CMOV).
(Dir.)Octavio A. Caiuby Salles (5)Donald Freitas (6)Eduardo E. Miele (7)Durval Rodrigues (asst. dir.)Silvio Ferraz Pires.
1 exp. cap. 200T, 2 solvent cap. 400T to 800T, storage cap. 137,000T. Served by FEPASA RR.

CONTRIJUI COOPERATIVE REGIONAL TRITICOLA SERRANA LTDA. (P)
Rua das Chacaras N°. 1513, Cx. Postal 111, Ijul, R.S., Ph. 2159-63-3277; TLX: 0552199.

COOPERATIVA TRITICOLA MISTA ALTO JACUI LTD., COTRIJAL (P)
Rua Dr. Liberato Salzano 1-99-470, Nao me Toque, Rio Grande do Sul, Campo Real RGS, Ph. 277; TELEGRAPH: COTRIJAL.
(1)Irmfried O.I.H. Schmiedt (2)Adelar da Cunha (3)Norberto Barth (4)Eloi Berres (7)Madar Piva.

COOPERATIVA TRITICOLA
DE PASSO FUNDO LTDA. (P)
Av. Presidente Vargas, 100, Cx. Postal 162, Passo Fundo, RGS, Ph. PABX-2381; TELEGRAPH: COMPASSO-PASSO,FUNDO-RS-BRAZIL; TLX: 0542151.

FECOTRIGO (P)
Rua. Gen. Andrade Neves 106, Cx. Postal 2679, 90,000 Port Alegre, R.S., Ph. 25-4022; TLX: 051-1331.
(1)Jarbas Pires Machado (2)Mario Kruel Guimaraes.
Soybean crushing, 1,500T/day.*

FUJIWARA HISATO S.A. (P)
Comercio e Industria, Rua Libero Badaro, 293, 27th Floor, Sao Paulo SP-BR, Ph. 229-1722; TLX: 11-23226 (FUHI-BR); Plants at: Rod. Melo Peixoto, KM. 159 Trecho Londrina, Cambe-PR, Ph. 54-3638; Av. Jose Andraus Gassini, 2,464 Ciudade Industrial, Uberlandia-MG, Ph. 47-160.
(1)Washington Hatanaka (2)Oswaldo Mitsuo Fujiwara, Joao Sacuda (4)Ricieri Raphaelli (5)Nelson Crepaldi (6,8)A. Jorge Cortellazzi (7)Gothard Schoeps (9)Antonio Dorival dos Santos at Cambe and Francisco, Oliver Meronha at Uberlandia.
9 exp. cap. 900T, 3 solvent cap. 800T, storage cap. 4,500,000, soybean meal and pellets. Served by FEPASA and RFF RR.

INCOBRASA (P R SF)
INDUSTRIAL E COMERCIAL
BRASILEIRA, S.A.
Edificio Formac, 24th Floor, Porto Alegre, Ph. 24-3372, TLX: 051-1777 (INBRBR); Plant at: Rua Hermes da Fonseca, 2255 Vila Rio Branco, Canoas.
(dir.)Diego Blanco (5,6)Kwang Chen Hsieh (4)Armando Giampaoli da Silva (7)Arthur Souza Warth (8)John Chang, Akira Uchida.
Solvent cap. 800T, storage cap. 90,000T, Incobrasa soybean meal and soy flour, SANTA ROSA edible soy oil, fluid lecithin, soy grits, toasted soybean pellets, approx. soybean operation 600-800T/day.

MERLIN S.A. IND. E. COM.
DE OLEOS VEGETAIS. (P)
Av. Dique, s/n, Cx. Postal 2722 e 10,001, Porto Alegre, RGS, 90,000; TLX: 051-1053 (MERL).

S.A. MOINHOS RIO GRANDENSES (SAMRIG) (P R SF)
Rua De Conceicao, 195, Port Alegre, RGS, Ph. 24-1033; TLX: 028778 (SAMRIG PAE).
(Gen. dir.)Duilo Fossati (4)Antonio Carlos M. da Silva (5,8)Carlos Goidanich (9)Eduardo Scheidegger.
Solvent cap. 600,000T, storage cap. 140,000T, PROTOSAM toasted soybean meal, PROTEIMAX isolated soy protein, PRIMOR edible oil and margarine, LECSAM lecithin, GLISAM glycerin and soapstock and balanced feedings. Served by RFF S.A. RR.

OLEOS VEGETAIS TAQUARUSSU S.A. (P)
Cx. Postal 14, Frederico Westphalen, RGS, Ph. 157.
(1,6)Lindo Angelo Cerutti (2)Dr. Ennio F. Andrade (3)Sadi Zanchet (4)Claudino Balestrim (7)Placido Zanchet (9)Antoninho Toldo.
4 exp. cap 25T, solvent cap. 20T, storage cap. 3,600T, ALTO URUGUAI soybean meal, TAQUARUSSU mixed feeds, approx. soybean operations 9 months.

OLVEBRA S.A.
INDUSTRIA E COMERCIO
DE OLEOS VEGETAIS (P R SF)
Praca Osvaldo Cruz N° 15-16° Andar, Porto Alegre, RGS, Ph. 21-2200; TLX: 051-1225 (OLVE BR).
(1)Sheun Ming Ling (2)Richard Tse.
Cap. 5,000T/day, refinery 600T/day, storage cap. 280,000T, toasted soybean meal, soy oil crude, refined and edible oil, powder soyabean milk, trademark VIOLETA.

J. OSZOWSKI & CIA LTDA. (P)
R. Pindal S/N, RGS.
(1)Isidoro Oszowski (5,6,8)Z. Gorski (7,9)P. Oszowski (chem. engr.)Carlos A. Oszowski.
2 exp. cap. 24T, storage cap. 12,000 bu., crude oil without brand, approx. soybean operations 10 months. Served by VFRGS RR.

SOC. ALGODOEIRA DO NORDESTE
BRASILEIRO S.A. (SANBRA) (P)
Rua Boa Vista, 162-50, P.O. Box 8149, 01014 Sao Paulo; TLX: 011-23937; CABLE: SANBROIL.

SWIFT-ARMOUR S.A.
INDUSTRIA E COMERCIO (P)
BR-369 Rodovia melo Peixoto, KM. 73, Santo Mariana, Parana, Ph. 197; Main office: Rua Formosa 367-9 E 10 Andares, Sao Paulo.
(5,6,7,8,9)R.C. Merino.
3 high-speed exp. cap 200T, solvent cap. 250T, storage cap. 600,000 bu., SWIFT-PLATE soybean meal, soybean operations 60,000T. Served by Estrada de Ferro Parana-Santa Catarine-PR.

SWIFT-ARMOUR S.A.
INDUSTRIA E COMMERCIO (P)
Rua Formosa 367-9 E 10 Andares, Cx. Postal 4210, Sao Paulo 01000, Ph. 35-6121.
(1)F.L. Herbert (2)D. Salva (3)R.H. Paris (4)N.M. Munhoz (5,6,8)R.C. Merino.

CANADA

CSP FOODS LTD. (P)
P.O. Box 750, Altona, Man. R0G 0B0, Ph. 324-6481; TLX: 07-57556.
(1)R.W. Siemens (3)B.W. Gunn (5)J.C. Friesen (7)Menno Funk (location gen. mgr.)Norman Buhr.
Storage cap. 720,000 bu., soybean, sunflower and canola operations. Served by CP RR.*

CANADA PACKERS INC. (R SF)
95 St. Clair Ave. W., Toronto, Ont. M4V 1P2, Ph. 416-766-4311; TLX: 062-2257; Plants at: Vancouver, Edmonton, Winnipeg, Toronto and Montreal.
Refining, hydrogenation and deodorizing.*

CANADIAN VEGETABLE
OIL PROCESSING (P)
Div. Canada Packers Inc., Victoria Ave. & Burlington St., Hamilton, Ont., Ph. 416-527-9121; TLX: 061-8315.
(1,6)G.H. Vinall (2,5,3)P.W. Glenney (7)A. Bartens (9)D. Little.
Crown Blaw-Knox hexane solvent cap. 1,100T, storage cap. 700,000 bu., CVOP soybean meal. Served by CNR.*

MAPLE LEAF MONARCH CO. (P)
365 Evans Ave., Toronto, Ont. M8Z 5W7, Ph. 416-252-5551; TLX: 06-984560; Plant at: Windsor, Ont.
(1)W.G. Milliken (2)M. Richardson (3)R.E. Lennox (4)K. Keune (5)G. Corneil (6)W.M. Russell (7)N. Schrakamp (8)J.D. McNamara (9)N.A. Pisano.
Lurgi hexane solvent cap. 1,100MT, Prepress Lurgi Hexane solvent cap. 280MT, storage cap. 1,500,000 bu., soybean, flaxseed, rapeseed, sunflower. Served by Essex Terminal.*

MONARCH FINE FOODS CO. LTD. (R SF)
6700 Finch Ave. W., Rexdale, Ont. M9W 1G9, Ph. 416-675-1678; TLX: 06-989-485; Plants at: Rexdale and Vancouver.*

VICTORY SOYA MILLS LTD. (P)
Affiliate of Proctor & Gamble Co., Cincinnati, OH, 333 Lake Shore Blvd. E., Toronto Ont. M5A 1C2, Ph. 416-363-8771; TLX: 06-219812; CABLE: (VICTORY TOR).
(2-Gen. mgr.)B.S. Aitken (2,8)W.H. Wright (3-comptroller)P. Shea (4)K.J. Smith (5,6,8)C.M. Davis.
Served by CN, CP RR.*

CHILE

ACEITERA TALCA S.A.(ACEITAL) (P SF)
Casilla 20D, Camino Longitudinal Sur., Talca, Ph. 32163.
(1)Jose Lobato Barrera (2)Hernan Cruz Conna (3-gen. mgr)Rodrigo Vines L. (4)Ricardo Vera (6-oper. mgr.)Carlos Bayer (7)Kurt Bolzmann (8)Osvaldo Sazo.
3 exp. cap. 40T, solvent cap. 30T, soybean and other oilseed storage cap. 10,000T, ORO VEGETAL soybean meal and soy flour, approx. soybean operations 20%. Served by Ferrocarriles del Estado RR.

ACEITES Y ALCOHOLES
(PATRIA) S.A. (P)
Huerfanos 812, 3ER Piso, Santiago, Ph. 394255; Plant at: Camino a la Costa S/N, Lontue.
(1)Guillermo Marin (3-mgr. dir.)Ramon Bou (4)Juan Undurraga (6,8)Mauricio Correa (7)Mario Undurraga (9)Guillermo DeMartini Alvarez.

AGRO INDUSTRIAL
MIRAFLORES S.A. (P)
Augustinas 1022, OF 823, Santiago, Ph. 67102; TLX: 40953 (AIMSA); Plants at: Santiago, Talca and Temuco.
(Gen. mgr.)Raymundo P. Perez (Prod. mgr.)Rogelio Ortuzar Silva (Dept. dir.)Alfonso Correa Perro (1)Jorge Correa Montt (7)Arturo Nash Valenzuela.

COMPANIA INDUSTRIAL (P)
Huerfanos 812, 3ER Piso, Santiago, Ph. 394255; Plant at: Temuco, Padre Las Casas.
(1)Joaquin Figueroa (2)Luis Bianchi (3-sr. gen. mgr.)Angel Meschi (4)Juan Undurraga

(5)Ramon Bou (6,8)Mauricio Correa (7)Carlos Gomez Ayarzun (9)Jose Gonzalez Briones.
2 exp. cap. 200T, DeSmet solvent cap. 200T, storage cap. 1,000,000 bu., CHEF, CRISTAL, DOS BANDERAS Oil, approx. soybean operations15,000T, rapeseed operation 5,000T.

COOPERATIVA AGRICOLA AVICOLA SANTIAGO LTD. (P)
Avda., Central No. 4051, LaValledor, P.O. Box 10080, Santiago, Ph. 9881; Plant at: Camino Melipilla 1630, Padre Hurtado.
(1)Raul Fisher (2)Luis Ladevig (3,5)Andres Garces (7)Vicente Correa G. (9)Marcelo Ladevig
Exp./screw press cap. 24T, storage cap. 5,000MT, soybean meal, mixed feeds and pellets.

SOCIEDAD AGRICOLA KING LTDA. (P)
Irarrazaval 1951, Santiago, Ph. 747362.
(1)Jorge Garcia (2)Enrique Celery (3)Rodrigo Garcia (7)Gerardo Rath (9)Gonzalo Garcia
KING mixed feeds.

SUPER POLLO INC. CO. (P)
P.O. Box 13, Donihue, Rancagua 22R, Ph. 24942; Plant at: La Miranda, Rancagua.
(1)Gonzalo Vial Via (2)Hernando Salas Richaud (4)Guillermo Galleguillos (7)Teodomiro Garcia Soto (9)Eduardo Alcayaga Barraza.
2 exp./screw press cap. 130T, storage cap. 2500T, SUPER POLLO mixed feeds and pellets for company use.

COLUMBIA

ACEITALES S.A. (P)
Calle 12, No. 37-19, Bogota, Ph. 378555.
(Mgr.)Ivan Hoyos (Adm. mgr.)Edgardo Baena.
Exp. cap. 100T, solvent cap. 220T.

ACEITES Y GRASAS VEGETALES S.A. (ACEGRASAS) (P SF)
Aceites Del Tolima S.A., Carretera del Sur 57-21, Bogata, Ph. 30-50-55.
(1)Eduardo Bernal Arango (2)Juan Manuel Posse (3)Leon Perez Mejia (5)Roberto Cuervo (6,9)Jose L. Florez (7)Silvio Hernandez.
Lurgi solvent cap. 50T, storage cap. 9,000T, pellets and soy flour.

LA AMERICANA GRASAS Y ACEITES COMESTIBLES S.A. (P)
Carrera 1B, No. 47-12, Cali, Ph. 441021; TLX: 055-706.
(1)William Robledo C. (4)Eveiro Marulanda (5,8)Alonso Hoyos (7)Omar Abadia (9)Ivan Palacio.
2 exp. cap. 24T, solvent cap. 70T, storage cap. 175,000 bu., La Americana soybean meal.

GRASAS S.A. (P)
Calle 11, No. 18-113, Buga-Valle, Ph. 2021; TLX: 05866.
(1)Jorge Duran (3)Martha Ruiz (4)Paulo Bernal (5)Luis E. Aponte (6,8)Alberto Angel (9)Manuel Issa.
2 exp. cap. 200T, Blaw-Knox solvent cap. 200T, storage cap. 1,600,000 bu., SUPERTORTA DE SOYA soybean meal, approx. soybean operations 48,000T. Exports through Buenaventura. Served by Ferrocarriles Nacionales del Pacifico RR.

GRASAS VEGETALES S.A. (P)
Carerra 51, No. 49-59, Piso 10, Box 5002, Medellin; TLX: 06-797; Plant at: Sabaneta, Antioquia.
(1)Luciano Elejalde Jaramillo (2)Antonio Escorbar Uribe (3)Blanca Ruth Ortiz Uribe (4)Marie Eugenia Bravo V. (4)Gloria Castano (5,6,8)German Castillo R. (7)Gonzalo Quiros (9)Bernardo Upegui.
1 exp. cap. 30T, DeSmet solvent cap. 150T, storage cap. 5,000T, GRAVETAL soybean meal, approx. soybean operations 3,000T/month.

LLOREDA GRASAS Y ACEITES VEGETALES S.A. (P R SF)
Autopista Cali Yumbo Kilometro 3, Cali, Ph. 682111; TLX: 055-711 (LLOGRCO).
(1)Armando Lloreda Zamorano (2)Alfonso Osorno Cujar (4)Manuel Escobar (5)Juan Manuel Cruz (6)Ulpiano Lloreda Zamorano (7)Gustavo Pauker (8)Guillermo Baron (9)Antonio Leon Merino.
3 exp. cap 60T, solvent cap. 400T/day, storage cap. 1,469,600 bu., approx. soybean operations70,000T/year, soybean meal, PROTARINA soy flour, OLEOCLLI salad and cooking oils, MANTECALE shortening, NATURA margarine. Ocean port Buenaventura 120 KM. Served by Ferrocarriles Nacionales RR.

DENMARK

AARHUS OLIEFABRIK A/S (P)
Bruunsgade 27, 8100 Aarhus C, Ph. 06-12-60-00.
(Mgr. dir.)S. Mellerup (comm. dir.)H.F. Andersen (5,8)J. Hoy Christensen.
DeSmet solvent cap. 1,200T, soybean meal, approx.soybean operations 250,000T.*

DANSK SOJAKAGEFABRIK A/S (P)
Islands Brygge 24, 2300 Copenhagen S., Ph. 1546600; TLX: 31313.
(1)F. Moerner (4)M.T. Munch (5,6,8)Mogens Kjaer (7,9)Erik Brandt.*

DOMINICAN REPUBLIC

SOCIEDAD INDUSTRIAL DOMINICANA C.A. (P)
Ave. Maximo Gomez No. 182, Santo Domingo, Ph. 809-565-1323.
(Adm.)Roberto Bonetti (asst. adm.)Otto W. Bauer (1)Enrique Armenteros (2)J.M. Bonetti (7)Rafael G. Zowe.
10 exp./screw press cap. 200MT, storage cap. 370,000 bu., GANADERO FULL-OF-PEP mixed feeds, approx. soybean operations 40%.

ECUADOR

FABRICA DE ACEITES "LA FAVORITA" S.A. (P)
Francisco Marco 102, P.O. Box 486, Guayaquil, Ph. 402840.

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DeSmet solvent cap. 120T, storage cap. 8,600MT, locally and imported soybean operation.

INDUSTRIAS ALES C.A. (P)
Casilla 4808, Manta, Ph. 610470.
(Gen. mgr.)Patricio Alvarez Barba (Mgr.)Wolf R. Harten (Chief eng.)Ing. Carlos Reyes (Solv. plant eng.)Ing. Roberto Mejia (1)Cesar Alvarez Barba (2)Francisco Uribe (7)Jorge Appenzauser (8)Oscar Bowen (9)Cristobal Garcia Pena
DeSmet solvent cap. 120T.

OLEICA S.A. (P)
KM. 6½, Via a Daule, Casilla 3228, Guayaquil, Ph. Conm. 351-300.
(1)Clara Bruno de Piana (2)Ana Maria de Estrada (5,6,9)Ing. Luis Piana (7)Ing. Molano (8)Ing. R. Reinoso.
Solvent cap. 50T/day, storage cap. 180,000 bu., manufacturers balanced rations, approx. soybean operation 30%.

EGYPT

AL ARZ INDUSTRIES FOR VEGETABLE OILS & DERIVATIVES (P R)
West Noubariah Canal, P.O. Box 1984, Alexandria, Ph. 803373; TLX: 54214 (SINNO UN).
(1,5,6)Mohamed Arslan Sinno (2,8,9)Ayman M. Sinno (3)Yehia el Tawil (4)Salah B. Moustapha (7)Y. Tawil
Rotocel solvent ext. cap 300/350MT, storage cap. 25,000MT, 44% and 48% soybean meal, fully refined liquid soy oil. Served by Noubariah Canal.

EXTRACTED OILS & DERIVATIVES CO. (P)
Affiliate of Egyptian General Organization for Food Industries, Canal Mahmoudia St., Alexandria, Moharram Bey, Ph. 26199; TLX: 54015 (UN).
(1)Eng. Osman Rifaat.
DeSmet solvent cap 350T, storage cap. 110,000 bu., approx. soybean operations 60,000T.

ENGLAND

BOCM SILCOCK LTD. (P R)
Bocm Silcock House, Basing View, Basingstoke, Hampshire RG212EQ, Ph. 29211; TLX: 858429; Plant at: Selby.
(Chm.)M. Dondall (Sales mgr.)A. Peake.
Extraction plant and vegetable oil refinery, manufacture animal feeds.*

J. BIBBY EDIBLE OILS LTD. (P R)
57 Great Howard St., Liverpool L37AW, Ph. 051-236-6671.
(Mgr. dir.)D.L. Airey (Comm. mgr.)M. Bennett (Ext. prod. mgr.)H. Nisted (ref. prod. mgr.)P.T. Culshaw (Tech.-serv. mgr.)R.V. Crawford.
Solvent extraction plant and refinery.*

THE BRITISH ARKADY CO. LTD. (P SF)
Arkady Soya Mills, Old Trafford, Manchester M16 ONJ, Ph. 061-872; TLX: 668488.
(Tech. dir.)W. Pringle (1)J.R. Mahlich (3)R. Hobson.
HI-SOY, DO-SOY and ARKASOY soy flour, protein products, food additives and vegetable protein.*

BRITISH SOYA PRODUCTS LTD. (P SF)
Puckeridge NR Ware, Hertfordshire, Ph. 821291; TLX: 81352.
(Mgr. dir.)J.C. Wood (Mgr. dir.)D.N. Hellier (3,5)J.T. O'Connor.
TRUSOY and BREDSOY soy flours, functional food ingredients and Bespro textured proteins.*

CONTINENTAL (LONDON) LTD. (P)
Continental Grain Co., 2 Gladstone Dock, Bootle, Merseyside LZO IBG, Ph. 051-933-6561; TLX: 628000.
(5,6)L.C. Smith (9)R.L. Anderson.
Solvent cap. 1,500T, storage cap. 300,000 bu., Contisoya brand.*

ERITH OIL WORKS LTD. (P)
Church Manorway, Erith, Kent DA8 1DL, Ph. 01-304-7111.
(5)J.E. Batterbee (6,8)S.T. Sanders (7,9)J.R.V. Greaves.
Solvent cap. 2,900T, UNIMILLS soybean meal. Served by road and sea.*

SOYA FOODS LTD. (P SF)
Affiliate of Spillers French Milling Ltd., New Malden House, Blagdon Rd., New Malden Surrey KT3 4TB, Ph. 01-949-2141; TLX: 896660; Plant at: Jacob St., Bermondsey, London SE1.
(Gen. mgr.)M.A. Brown (Mill mgr.)B.A.F. Chivers.
Storage cap 40,000 bu., SOYOLK and DIASOY, full-fat soy flours, other bread improvers and ice cream products.*

FINLAND

OLJYNPURISTAMO OY (P)
Niittaajankatu 1, Helsinki, Ph. 780155; TLX: 12-1518.
(1)S. Laiho (4)K. Wiitala (5,6,8)P. Karri (9)E. Tolvanen.
6 screw pr., DeSmet solvent ext., approx. soybean operations 60,000T/year. Own port. Served by Finnish State RR.*

OY KASVIOLJY (P R SF IP)
21200 Raisio, Ph. Turku 921-780-311; TLX: 62140 (RAUL SF).
(1)Mauri Karvetti (5,6)Heikki Siintola.
4 exp. cap. 300T, solvent cap. 300T, storage cap. 815,000 bu., oil meals, vegetable oils, distilled fatty acids and byproducts.*

FRANCE

P. DUMORTIER FRERES S.A. (P)
B.P. 120-59, Tourcoing, Ph. 26-61-00; TLX: 810075.
(1)Mr. Dumortier.
Served by SNCF RR.*

HUILERIES ALSACIENNES S.A. (P)
1 Place Henry Levy, Boite Postale No. 19, 67016, Strasbourg-Port-Du-Rhin, Ph. 88-61-48-55; TLX: 87979.
(1)C. Baumann (6)G. Haefele.
Served by Rhine canal and SNCF RR.

OLEAGRI (P)
12 Ave, George V., 75008 Paris, Ph. 723-42-42; TLX: 641870; Plant at: Bordeaux.
(Exec. mgr.)Michel Conchou (1)Roger Petit.
Cap. 350,000T, storage cap. 50,000T, oil storage 16,000T. Served by rail, barge, sea and road.*

ROBBE-HYFRAN S.A. (P)
Paris 8; Plant at: Venette-Compiegne 60200; Ph. 420-99-30.
(1)Emile Rastoin (3)J.J. Bennasar (5,8)Rene Martin-Chave (6)Fr. de Driesen (7)Robert Massoni (9)Paul Droste.
Exp. 250T, ext. 300T, storage cap. 6,500T. Served by Paris-Bruxelles.

SOCIETE INDUSTRIELLE DES OLEAGINEUX (SIO) (P SF)
26 a 36, Rue des Peupliers, 92000 Nanterre, Ph. I-785-69-0I; TLX: 612077 (SOLEAG N° F); Plant at: Saint-Laurent Blangy, Pas de Calais.
(1)Yves Henrot (8)Guy Deneck (9)Rene Benard.
DeSmet solvent cap. 220T, SOYOPTIM, SOYADYN, SOYASSIM, FLOCOSOYA, S.I.O. soy flours, soybean operations 66,000T/year. Served by SNCF Arras/Blangy RR.*

SOJA FRANCE S.A. (P)
Boulevard Paul Leferme, St. Nazaire 44600, Ph. 22-91-07; TLX: 700-941; Plant at: Brest 29200, Ph. 80-26-09.
(1)D. de Clercq (2,5)J.L. Lapix (4)C. Mery (6,8)Kees Veerman (7)L. Raulic.
Solvent cap. 1,600T, storage cap 1,500,000 bu.*

GREECE

SOYA MILLS S.A. (P)
Subsidiary of Eleourgia Ke Vamvakourgia Thessalonikis S.A., Valaoritou 9, Ph. 0741-78211; Plant at: Kalamaki, Korinthe.
(1)Ilias Iliadis (2,4)Ar. Ofloudis (3)Kostas Kessissis (5)Savas Michailidis.
Solvent cap. 600T, storage cap. 1,000,000 bu., quality 44%-45% PROFAT soybean meal. Served by own port.

INDIA

HINDUSTAN LEVER LIMITED (P)
Subsidiary of Unilever Limited, London, England; 165-166 Backbay Reclamation, Bombay 400 020, Ph. 221222, TLX: 011-2323.
Manufacturer of GOLDMOHUR mixed feeds and pellets.*

MANGLIAGAON (M.P.) GENERAL FOODS PRIVATE LTD. (P SF)
150 Jaora Compound, Indore 452001, Ph. 6889; TLX: 0735-203.
(1)Shri Santosh Shahra (2)Shri Dinesh Shahra.
Exp. cap. 150T, storage (150) cap. 20,000MT, soya flours, refined oil. Served by Western Railways.*

SOYABEAN EXTRACTION PRIVATE LTD. (P)
Milan Poshal Ghar, Station Rd., P.O. Box 44, Anand 388001, Gujarat; Ph. 272; CABLE: SOYBEAN ANAND; Plant at: Plot 124 to 128B, g.i.D.c. Estate Vithal Udyognagar, Vallabh Vidyangar 388120.
(1)N.H. Patel (3)K.D. Patel (5)G.N. Patel (6,8)R.A. Amin (7)G.M. Patel (9)P.N. Patel.
Solvent cap. 20-50T, storage cap. 1,600MT, soy flour. Served by Western Railways.*

SOYABEAN EXTRACTION PRIVATE LTD. (P)
143 Jolly Maker Chambers Two, 14th Floor, 225 Nariman Point, Bombay 400-021, Ph. 231320; TLX: 0-11-3078 (UTPA IN); CABLE: UTPADAN.*

THE TATA OIL MILLS CO. LTD. (P)
Bombay House, Bombay 400-023, Ph. 259131; TLX: 011-2618.
(Mgr. proteins)M.C. Badami (1)K.S. Hinge (3)L.S. Kanvinde (4)K.D. Katrak (5)A.N. Divecha (7)M. Carlos.
2 exp., solvent cap. 21,900T/year, PROTIMITE isolate, CHIC-PIC poultry feed mash, O.K. cattle feed, soy flour, mixed feeds and pellets.*

VED BRAT & CO. (P SF)
Reg. Soya Protein Ltd., 39-C Prem House, Connaught Place, New Delhi 1, Ph. 352761.
(1)Ved Brat.
Exp. cap. 50T, solvent cap. 100T, storage cap. 175,000 bu., soya proteins. Served by Indian Railways.*

VIPPY SOLVEX PRODUCTS PRIVATE LTD. (P SF)
28, Industrial Area, AB Road, Dewas 455-001, Ph. 581; TLX: 0732-201 (VSPIN).
(Chm.)V.C. Mutha (3)G.D. Maheshaware (4)G.L. Mahajan (5,6)V.S. Surana (7)M.D. Mahajan (8-mgr. dir.)P.C. Mutha (9)D.C. Doshi.
Exp. cap 20MT, solvent cap. 100MT, storage cap. 15,000MT, VIPPY soy flour. Served by Western Railways.*

IRAN

BEHPAK INDUSTRIAL CO. LTD. (P)
56 Zahedi Ave., Tehran, Ph. 8171.
(1)M.B. Habibi (7,9)H. Jorati.
8 exp. cap. 400T, solvent cap. 300T, soybean storage cap. 15,000T, cottonseed storage cap. 60,000T, soybean meal, approx. soybean operations 20,000T.

ISFAHAN INDUSTRIES & VEGETABLE OIL CO. (P)
Anoushirevan St., KM 2, Isfahan, Ph. 34380.
(1)M.A. Moin Amin (2)A.H. Moin Amin (5)Government (7)Dr. Azadrad (8)Moin Amin (9)E.G. Sajedi.
8 exp./screw press cap. 80T, solvent cap. 50T, storage cap. 10,000MT, ISFAHAN cakes.

KHAVARDASHT AGROINDUSTRY CORP. (P)
483 Hafez Ave., Tehran, Ph. 6710129; TLX: 212627; Plant at: Karadji Rd.
(1)A.A.A. Koroor (5)Keshte Danehaye Roughani (9)Mr. Haidari.
4 exp./screw press cap. 600T, solvent cap. 300T, storage cap. 30,000MT, soybean meal.*

PARS ANIMAL FEED CO. (P)
Karadj Rd., KM. 14, Tehran, Ph. 665813; CABLE: PARSDANEH; Main office: 35 Kenedy St., Box 14/1369, Tehran, Ph. 921223.
(1)Dr. A. Rahimian (2)A. Anaraky (8)Rahimi (9)Koroor.
Exp. cap. 500T, solvent cap. 150,000T, storage cap. 30,000T, PARS soybean meal, mixed feed and pellets, approx. soybean operations 7,000T (local crop).*

PARS VEGETABLE OIL CO. (P IP)
Farahabad Khazeneh, Tehran, Ph. 312203-9; TLX: 212476 (CATLIR); Office at: 483 Ave. Hafex, P.O. Box 1982, Tehran.

SHERKATE SAHAMI ROWGHAN NABATI JAHAN (P)
15 Ave., Malekoshoara Bahar, Tehran 15, Ph. 838036; TLX: 212628 (FATIR); Plant at: Jahanshahr, Karadj.
(Mgr. dir.)Ahmad Ghazanfar (1)M.A. Ghazanfar (6)M. Jafarian (7,9)Eng. Marvasti (8)H. Ghazanfar.
4 exp./screw press cap. 250T, solvent cap. 250T, storage cap. 10,000MT, Jahan soybean meal.

ISRAEL

ETZ HAZAITH LTD. (P R SF IP)
P.O. Box 193, Petah-Tikva, Ph. 927171; TLX: 341859; Plant at: Kiryat Aryeh, Petah-Tikva.
(1)Benjamin Gebli (2)Zeev Shahar (3)Yehudith Zeira (4)Dan Atias (6)Jacob Sarid (9)Pinchas Naor.
Ext. cap. 500T, storage cap. 31,000T, HLS solvent ext. 200T, flash desolventizing 30T, refinery HLS 200T, meal 50% proteins, lecithin, flour, hydrogenation, margarine, shortening and soaps.*

IZHAR OIL INDUSTRY OF ISRAEL LTD. (P R)
P.O. Box 823, Tel-Aviv, Ph. 252444; TLX: 33441 (OCEAN IL); Plant at: 52 NahlatIzhak St., Tel-Aviv.
(1-joint gen. mgr.)Yizhak I. Mitelman (2-joint gen. mgr.)E. Ezrachi (3)Y. Gornitzky (4)H. Rudin (5)R. Seroussi (6)A. Shapira (7)M. Mietlman (8)M. Cohen (9)M. Ben-Hayim.
SBP Benzene 60% solvent cap. 600T, storage cap. 6,000T, soybean meal and oil.*

OLIVEX LTD. (P)
25 Rothschild Blvd., P.O. Box 1498, Tel-Aviv; Plant at: Petah Tiqvah, Ph. 614451; TLX: 341118 (BXTV IL) EXT 5674; CABLE: EXOLIV.
(Mgr. dir.)Dr. Wolf Cegla (Mgr. dir.)Dr. Uriel G. Cegla.
Continuous solvent cap. 600T, storage cap. 8,000T.*

SHEMEN INDUSTRIES LTD. (P R)
P.O. Box 136, Haifa 31000, Ph. 04-642181; TLX: 46776 (KFOOD IL).
(1-mgr. dir.)Benjamin Givli (2)Yaacov Sheffi (3)Judith Seyra (4)Zalman Kleinman (5)Nadav Lubetzky (6,8)Zeev Noiman (7,9)Yaacov Sheffi.
Allis-Chalmers, DeSmet and French solv. cap. 600T, storage cap. 16,000T, approx. soybean operations up to 10,000T/month, MEGED soy oil and SHEMEN meal. Served by Haifa port.*

TAVLIN LTD. OIL & SOAP FACTORY (P)
Box 36, Rishon Lezion, Ph. 948-224.
(1)Meir Sugar (4)Leon Bachar (7)Itzhak Cohen (9)Levy Argov.
2 continuous solvent ext. plants, cap 350T, storage cap. 1,500T, 44% soybean meal, undecorticated cottonseed meal, approx. soybean operations 80%.*

TETH-BETH LTD. (P)
P.O. Box 147, Petah-Tikva, Ph. 913191; TLX: 341962.
Screw presses, continuous ext. cap. 700T, storage cap. 17,000T, approx. soybean operations 10-12 months. Served by Israel RR.*

ITALY

GIACOMO COSTA FU ANDREA S.p.A. (P R SF)
Via Gabriele d'Annunzio 2, Genova, Ph. 010-54831; TLX: 270068 (COSTA I); Plant at: Vignole Borbera, Alessandria.
(5)Lorenzo Costa (6)Frederico Costa (7)Lurgi Costa (8)Domenico Costa (9)Agostino Acatte.
Continuous solvent plant cap. 800T, storage cap. 45,000T, COSTA soybean meal, soy oil, soy lecithin, approx. soybean operations 90%

INDUSTRIE CHIMICHE ITALIA CENTRALE (P)
Molo Sud, Ancone, Ph. 55771, TELEGRAPH: ICIC.
(1)Dr. Igino Angelini (2-mgr. dir.)Spartaco Sparaco (5)Luigi Sparaco (6,7)Luigi Gastaldi (9)Lodovico Frontero.
Solvent cap. 500T, storage cap. 40,000T, approx. soybean operations 70%.

ITALIANA OLII E RISI S.p.A. (P SF)
Via Romolo Gessi, 20 Ravenna, Ph. 31222; Plants at: Porto Corsini, Ravenna; Porto Marghera, Venice; and Aprilia, Latina.
(1)Arturo Ferruzzi (2)Manetti Leo (3)Ceroni Gianfranco (4)Mazzolini Guido (4)Rosetti Stefano (5)Ferruzi Gardini Raul (6)Pietro Cortesi (7)Sangirgi Silvano Aprilia (7)Stefano Ghiradini Ravenna (7)Ferruzzi Antonio Marghera (8)Cortesi Pietro (9)Ceroni Gianfranco.
Porto Corsini Plant: 4 screw presses, cap 75T; Aprilia Plant: cap. 500T, storage cap. 40,000T; Porto Marghera Plant: cap. 450T, storage cap. 40,000T. Soybean meal, LECITOIL soy lecithin, approx. soybean operations 90%. Served by Bologna-Venice and Ancona Venice RR.

ITALSO S.p.A. (P)
Via L DaVinci, 35A, Livorno.
Crushing cap. 700T/day.

LIQUIFARM-GRUPPO INDUSTRIE ALIMENTARI S.p.A. IN AMMINISTRAZIONE STRAORDINARIA (P)
Via L da Vinci 19, Livorno, Ph. 34731; TLX: 500053; CABLE: GIAMIX.
(1)Ing. Erminio Cipolla (5,6,8)Dr. Eugenio De Biase (7,9)P.I. Piero Papini.
Solvent cap. 300T, storage cap. 70,000T. Served by Genova/Roma RR.*

OLEIFICIO FRATELLI BELLOLI SAS (P)
Inveruno 20010, Ph. 978125; TLX: 32549.
(1)Giovanni Battista Belioli (2)Angelo Belloli (2)Terenzio Belloli (9)Vincenzo Donini.
DeSmet solvent, storage cap. 40,000T.

SAMVA (P R SF)
Div. Giacomo Costa Fu Andrea S.p.A., Porto Marghera.
Continuous solvent plant cap. 1,000T, storage cap. 55,000T, soybean meal, soy oil, soy lecithin, approx. soybean operations 90%.*

SOCIETA INTERNAZIONALE OLEARIA S.p.A. (P)
Largo S. Giorgia 56, Modena, Ph. 222571; TLX: 510138; TELEGRAPH: SIO MODENA; Plants at: Modena, Via P. Ferrari 177; Castelfiorentino, Via Senese Romana; Ravenna, Via delle Industrie 113.
(1)Emilio Benassati.
16 exp. cap, DeSmet solvent cap. 1,000T, storage cap. 45,000T, approx. soybean operations 75%.*

JAMAICA

JAMAICA SOYA PRODUCTS INDUSTRIES LTD. (P)
P.O. Box 27, Old Harbour, St. Catherine, Ph. 983-2217.
(Gen. mgr.)F.A. Anderson (Dep. gen. mgr.)C.A. Neita (Financial cont.) D.B. Turner.
French stationary basket extractor, cap. 300ST, storage cap. 500,000 bu., bulk and bagged soybean meal.*

JAPAN

AJINOMOTO CO. INC. (P R SF IP)
5-8, 1-Chome, Kyobashi, Chou-ku, Tokyo, Ph. 272-1111; Plant at: Yokohama.
(1)B. Watanabe (3)M. Koike (4)T. Toba (5)T. Ohoka (6,8)N. Yamagata (7,9)K. Takenouchi.
8 screw press cap. 140T, hexane solvent cap. 700T, storage cap. 1,000,000 bu., oils and fats, tempura oil, salad oil, oilseed meal, lecithin, soy protein, seasonings, AJI-MATE, amino acids, mayonnaise, margarine, soups, AJI-CURE prepared frozen food, instant coffees and AJI-COAT.

ASAHI YUSHI CO. LTD. (P R SF)
Higashi Asahikawa City 070, Ph. 0166-36-1121.
(1)H. Shigyo (4,6,8)K. Yakita (7,9)M. Enomoto.
Solvent cap. 215T, soybean meal, soy oil, protein, flour, and mixed feeds. Served by Asahikawa Hakodate RR.

FUJI OIL CO. LTD. (P R SF)
Nissei Midosuji Hachimancho Bldg. 6-1, Osaka 542, Ph. 06-213-8151; Plants at: Izumisano and Kobe; Offices at: Fukuoka, Hiroshima, Nagoya, Sapporo and Tokyo.
(1)M. Nishimura (2)S. Suita (3)O. Miyaji (4)S. Shimizu (5)I Sunagawa (6,8)K. Hisomoto (7)T. Nakanishi (9)S. Tada.
23 exp. cap. 460T, solvent cap. 400T, storage cap. 160,000 bu., FUJI TAKARA soybean meal, isolated soy protein, FUJI soy oil and mixed feeds, approx. soybean operations 300T/day. Served by Japan National RR.

HOHNEN OIL CO. LTD. (P R SF IP)
Mitsui Life Insurance Bldg., 1-2-3, Ohtemachi, Chiyoda-ku, Tokyo, Ph. 211-6511; Plants at: Kobe and Shimizu.
(1)T. Yoshii (3)E. Sakabe (4)S. Munechika (5)H. Nakamura (6)M. Yasumoto (8)S. Suga (9)S. Urushibara.
Hexane solvent cap. 1,500T, storage cap. 71,000T, HOHNEN salad oil, HOHNEN tempura oil, soy protein, HOHNEN soy milk, HOHNEN soybean meal, SOYALET mixed feed for dairy and beef cattle, HOHNEN YUTAKAMAME meal for tofu, corn starch, soy lecithin, soybean glue, SOY PRO culture ground for microbes, synthetic resin adhesives and decorative plastic laminates. Served by Tokaido line and Shimizu port.

JAPAN SOYA PRODUCTS CO. LTD. (P R)
Nihon Daizu Seiyu Co. Ltd., Sumiyoshi-Hamacho, Higashinada-ku, Kobe.
(3,4)Matsuji Ikada (6,7,8)Seiji Itai.
Solvent cap. 55,000MT soybeans, 7,500MT soybean meal, 45% and 50% soybean meal and degummed soy oil.

KATO OIL MILL CO. LTD. (P R)
2-1-16, UmeMachi, Konohana-ku, Osaka-Shi, Ph. 06-462-0101.
(1)T. Kato (3,4)M. Senda (5,6,8)H. Fukushima (9)Y. Jyojya.
Exp. cap. 188T, solvent cap. 300T, soybean meal and oil. Served by Tamano Uno RR.*

NIHON KOYU CO. LTD. (P R SF)
No. 32, Bungo-Cho, Higashiku, Osaka, Ph. 943-0740; Plant at: Mizushima, Kurashiki; Offices at: Fukuoka, Hiroshima, Nagoya, Okayama, Takamatsu, Tokuyama and Tokyo.
(1)T. Noguchi (2,4)J. Iwakawa (2,5,6,8)F. Nonaka (2,7,9)H. Ogawa.
2 exp. cap. 400T, solvent cap. 1,300T, storage cap. 55,000T, Nikko soybean oil, rapeseed oil and other vegetable oils, lecithin, soybean meal, rapeseed meal and other vegetable meals, NIKKO-MAME defatted soybean flakes for shoyu and miso, SAKAE-MAME soy flour for tofu, PROTFLOUR soy flour for food and milk replacer, NIKOPRON high protein for food, NIKOFIMEE spun protein for food, Sterin, approx. soybean operations 330,000T/year. Served by Sanyo RR and Mizushima port.

NIKKA FATS & OILS CO. LTD. (P R SF)
5-16, 1-Chome, Edobori, Nishi-ku, Osaka, Ph. 06-441-7431; Plants at: Fukuoka, Kitakyushu, Wakamatsu.
(1)M. Ibaraki (3,4)T. Yagi (5,6,8)T. Takigawa (7,9)Y. Kawamoto.
Hexane solvent cap. 600MT, high press 2 cap. 300MT, BANZAI soybean meal, soy protein, rapeseed meal, soy oil, rapeseed oil, NIKKA salad oil, NIKKA tempura oil. Served by JNR Chikuho line, Kobe, Moji and Hakata ports.*

NIKKO OIL MILLS CO. LTD. (P R SF)
Kanda-Ogawamachi, 2-12 Chiyoda-ku, Tokyo, Ph. 03-233-3960; TLX: 222-4940; Plant at: Mizushima, Kurashki Okayama Pref., Ph. 0864-48-3232.
(1)S. Awano (2)M. Ishida (3,4)T. Hashi (5,6,8)F. Nonaka (7)J. Iwakawa.
2 exp./screw press cap. 400MT/day, solvent cap. 1,000MT/day, storage cap. 55,000MT, NIKKO DASSHIDAIZU, NIKKO MAME and SAKAE MAME soybean meals, rapeseed and other vegetable meal, soybean oil, rapeseed oil and other vegetable oils. Served by Sanyo RR.*

NISSHIN OIL MILLS LTD. (P R SF IP)
23-1, 1-Chome, Shinkawa, Chou-ku, Tokyo, Ph. 555-6923; Plants at: Kobe and Yokohama.
(Chm.)Y. Sakaguchi (1)M. Kawaguchi (3,4)M. Ishida (5)M. Fukawa (6)M. Oki (8)A. Yamaguchi (9)K. Kito.
27 exp. cap. 1,500T, continuous solvent cap. 2,400T, storage cap. 100,000T, DAIKYUI soybean meal, pellets, soy flour, SOY-MEE soybean edible spun protein, soy oil, NISSHIN salad oil, dressing, lecithin, fatty acid, hardened oil, other vegetable oil and meals, approx. soybean operations 400,000T/year. Served by Tokaido line, Yokohama and Kobe ports.

RINORU OIL MILLS CO. LTD. (P R SF)
Aminosan Kaikan Bldg., No. 8, 15, 3-Chome Nihombashi, Chuo-ku, Tokyo, Ph. 273-5651; Plant at: Nagoya.
(1)M. Katsu (3,4)T. Yoshida (5,6,8)M. Izumi (7)T. Maeda (9)E. Takasugi.
Exp. cap. 280T, solvent cap. 1,300T, storage cap. 1,850,000 bu., soy oil, RINORU salad oil, RINORU safflower salad oil and other vegetable oils, soybean meal and other vegetable meals. Served by Tokaido Line, Nagoya port.

SHOWA SANGYO CO. LTD. (P R SF IP)
2-1, 2-Chome, Uchikanda, Chiyoda-ku, Tokyo, Ph. 257-2020.
(1)H. Mutoh (2,7)S. Takanashi (3)H. Mihara (4)N. Takasu (5,6,8)T. Ena (9)K. Kojima (9)Y. Kawamata (9)M. Yasuhara.
Continuous solvent cap. 2,200T, storage cap. 282,400T, SHOWA soybean meal, soy oil, salad oil, soybean glue, lecithin, fatty acids, SHOWA soy flour and mixed feeds, SANGYO-MAME soy flour for tofu. Served by port of Yokohama, Kashima and Kobe.*

TOYO OIL MILLS CO. INC. (P)
Subsidiary of Ajinomoto Co. Inc., Tokyo: 230 Shinminato, Chiba-Shi 260, Ph. 0472-41-1251.
(1)T. Hino (3,4,5,6,8)M. Namekata (7)O. Uehara (9)A. Iwata.
Storage cap. 83,000T soybeans and 19,500T soybean meal.*

YOKKAICHI OIL & FATS CO. LTD. (P R)
3-44 Go, Suehiro-cho, Yokkaichi 510, Ph. 52-5131.
(1,5)Y. Muraki (3,7,9)K. Hattori (4)T. Beppu (6)T. Kanamori (8)S. Miwa.
Solvent cap. 230T, storage cap. 300,000 bu., soybean meal and oil.

YOSHIHARA OIL MILL LTD. (P SF)
3-6-32 Nakanoshima, Kita-ku, Osaka, Ph. 06-441-8851; Plant at: 49 Fukaehama-machi, Higashinada-ku, Kobe City, Ph. 078-451-4001.
(1)T. Kawagoshi (3)S. Kozima (4)T. Suzuki (5,6,8)K. Kisida (7,9)T. Miyagawa.
Solvent cap. 1,500T, storage cap. 40,000T, approx. soybean operations 40,000T/month.*

KOREA

CHEIL SUGAR CO. LTD. (P)
23rd Floor, Samsung Main Bldg. 250, 2-KA, Taepyung-RO, Chung-Ku, Seoul, Ph. 28-7533; TLX: K23762; Plant at: 64 2-KA Sinhungdong Chungku Inchon.
(1)S.B. Lee (5)J.S. Kim (6)C.H. Nam (7)M.Y. Yoo (8)H.B. Jung (9)Y.U. Kim.
Solvent cap. 700MT/day, WHITE SNOW soybean meal and CHEIL mixed feeds.*

DONG BANG OIL AND FLOUR MILLS CO. LTD. (P SF)
No. 2, Yangpyung-dong 4-KA, Yungdungpo-ku, Seoul, Ph. 633-3921; TLX: K27334 (DBSOY); Plant at: 468 E-dong, Jin Hae, Kyung Nam., Ph. 2-2161-3.
(1)Myung Soo Shin (2)Han Bum Cho (4)In Sup Youm (6)Jong Sik Choi (7)Jong Ki Kim (8)In Sup Youm (9)Kyu Chul Park.
Solvent cap. 1,725MT/day, storage cap. 1,763,000 bu., HAE PYO mixed feed, DONG BANG soy flour, soymilk for nutritional beverage and raw material for ice cream, TSP.*

SAM YANG OIL & FEED CO. LTD. (P)
51-1 Susong-dong, Jongro-ku, Seoul, Ph. 74-3406; TLX: K23275; Plant at: 45 7-KA, Hang-dong, Jung-ku, Inchon; Ph. 3-8284.
(1)Byung Wook Lee (2)Sung Keun Jo (4)Kyu Sam Chung (6,8)Bo Won Lee (7)Won Chul Chun (9)Suk Joon Lee.
Screw press cap. 300MT/day, solvent cap. 300MT/day, storage cap. 551,175 bu., SAM YANG soybean meal, mixed feeds and pellets.*

LEBANON

SELAATA TERMINAL (P)
Ste. Huiles et. Derives SAL, P.O. Box 644, Beirut, Ph. 221413; TLX: 20877 (LE).
(1)Nassif E. Jabbour (8)Shehadeh N. Malouf (9)Elias Elias.
Processing cap. 400T-450T/day, storage cap. 30,000T.*

MALAYSIA

PASIR GUDANG EDIBLE OILS SDN. BHD. (R)
8th Floor, Wisma Misc., Jalan Conlay, Kuala Lumpur 04-09, Ph. 03-424077; TLX: 30322 (FEDMIL MA); Plant at: P.O. Box 80, Pasir Gudang, Kawasan Pelabuhan, Johor, Ph. 073-66011; TLX: 60678 (PGEOPG MA).
(1,5)Kuok Khoon Hong (2)Ismail Kamaludin (3)Christine Kuok (4)Tan Yew Ngee (6)Tan Hong Leng (7)Tan Hock Yong (8)Lim Bet Toh (9)Tan Choon Kah.
Hexane solvent cap. 200MT/day, storage cap. 900,00 bu.*

MALTA

THE EDIBLE OIL REFINING CO. LTD. (R)
The Refinery, Mgieret Rd., P.O. Box 539, Marsa, Ph. 623613; TLX: 420MW (OIL REF).
(1)J. Parnis England (2)J. Psaila.
Refining of vegetable oils and fats.*

MEXICO

ACEITAS Y DERIVADOS DEL PACIFICO S.A. (P)
Raul Garcia y Cia S.A., KM 2125, Apdo. 213, Hermosillo, Sonora, Ph. 422-15; TLX: 058-854; Office at: Ave. Ruiz Cortinex 257 Pte., Monterrey N.L.
(1)Enrique R. Garcia (2)Lic. Enrique Garcia (5,9)Ing. Luis Quiros (8)Jose Aguilar.
Exp. cap 200T, solvent cap 200T. Served by Chihuahua-Pacifico.

ACEITE S.A. (P)
Cuidad Obregon, Sonora.
(Owner)La Polar.
Exp. solv. cap. 500T.

ACEITE CASA S.A. (P)
Ave. Ceylan, No. 793, Col. Industrial Vellejo; TLX: 177-1716 (CASAME).
(Owner)Ing. Enrico Cusi.
Exp. solv. (French) cap. 300MT.

ACEITERA LA JUNTA S.A. (P)
Calzada Gobernador Curiel No. 4781, P.O. Box 9-3, Guadalajara, Jalisco, Ph. 12-65-46.
(1)Eugenio Gomez Barquin (2,6,7)J. Cesar Gomez Fernandez (4)Yolanda Gomez de Del Rio (5)Noe A. Hinojosa L. (8,9)Ing. Javier Anaya G.
13 exp./screw press cap. 128T, solvent cap. 200T, storage cap. 20,000MT, mixed feeds and pellets, approx. soybean operations 25,000T-30,000T/year. Served by FFCC Nacionales de Mexico.

ACEITERA DEL NOROESTE S.A. (P)
Guamuchil, Sinaloa.
(1)Carlos Esquer.
Exp. solvent cap 60MT.

ACEITERA EL SALTO S.A. (P)
KM 1-5, Carretera San Martin de las Flores, El Castillo El Salto, Guadelajara, Jalisco, Ph. 35-95-16; TLX: 068-2675.
(1)Ramon Leucona Ramos (6)Enrique Moreno (7)Juan M. del Hoyo (9)Armando Francisco Pujol G.
10 exp. cap. 100T, solvent cap. 80T, soy flour. Served by FFCC Nacionales de Mexico.

ACEITERA TAPATIA S.A. (P)
Guadalajara, Jalisco.
Ing. Thomas Limon G.
Exp. solvent cap 80MT.

ACEITES GRASAS Y DERIVADOS S.A. (P)
Carr. Tequila KM. 8, Guadalajara, Jalisco.
(1)Juan Jose Gomez.
Exp. solvent cap. 200MT.

ACEITES INDUSTRIALES EL ZAPOTE S.A. (P SF)
Ave. Presidente Juarez, No. 201, Tlanepantla, Ph. 397-53-11.
(1)Eugenio Gomez Barquin (2)Eugenio Gomez Fernandez (3)Antonio Fernandez (4,5)Julio Cesar Gomez F. (6,8)Rodolfo Ampudia (7,9)Ramon de la Torre.
12 exp. cap. 150T, solvent cap. 120T, storage cap. 740 bu., ASTRO soybean meal, mixed feeds, pellets, soy flour. Served by FFCC Nacionales de Mexico.

ACEITES DEL MAYO S.A. (P)
KM. 1778 Carretera Guadalajara Nogales, Navojoa, Sonora, Ph. 2-34-34; TLX: 055626.
(1)Ing. Jorge Lliteras (3)Arturo Daniel Almada Ramos (4)Manuel Romo Carrilo (6,8,9)Ing. Enrique Ibarra Higuera (7)Ing. Carlos Enrique Salazar Castillo.
Solvent ext. cap. 350T.

ACEITES POLIMERIZADOS S.A. (P R SF IP)
Inguaran No. 5719, Mexico 14 DF, Ph. 577-39-23; Plant at: P.O. Box 14779, Calzada Inquaran 5737.
(1)Jose Terrones Langone (5-gen. dir.)Ing. Jose Luis Terrones (6,8)Ing. Frederico Acebal (7)Ing. Jose Maya R. (9)Lic. Mario Meraz.
6 exp. cap. 70T, DeSmet solvent cap. 70T, storage cap. 560 bu., soybean meal, soy flour, soy fatty acid distillates cap. 2,000T/year, epoxidized soybean oil cap. 1,000T/year. Served by FFCC Nacionales de Mexico.

ACEITES Y PROTEINAS S.A. (P SF)
Apartado Postal 2063, KM. 6-4, Camino a Novalto, Culiacan, Sinaloa, Ph. 3-09-00; TLX: 066-5713 (APSAME).
(1)Gregorio Gomez (3)Gregorio Gomez Alonso (4)Lic. Eloy Gomez Alonso (7)Ing. Ibarra (9)Angel Sanudo Galvan.
DeSmet solvent cap. 200T, storage cap. 740 bu., soybean meal and soy flour. Served by FFCC Del Pacifico.

ANDERSON, CLAYTON & CO. S.A. DE C.V. (P)
Av. Vallarta, No. 6449, Guadalajara, Jalisco; TLX: 682736 (ACCOME); Plants at: Chavez, Coahuila and Empalme, Sonora.
(7)Haskell Cooke (9)Roberto Lerma.
Chavez Coahuila Plant: Exp. solvent cap. 200MT; Empalme, Sonora Plant: Exp. solvent cap. 420MT.

FABRICA DE ACEITES LA CENTRAL S.A. (P)
Industrias Gonzalez, Escobedo Sur No. 240, Guadalajara, Jalisco, Ph. 35-00-46; TLX: 0681763.
(9)Daniel Sada Jr.
8 exp. cap. 400T, solvent cap. 400T, PASTA MEX soybean meal. Served by FFCC Nacionales de Mexico.

GALLETERA MEXICANA S.A. (GAMESA) (P SF)
Cuidad Obregon, Sonora.
(1)Alberto Santos (7)Antonio Gil Anaya.
DeSmet solvent cap. 500T.

GRASAS Y VEGETALES S.A. (P)
Limon No. 1139, Col. de. Frenso, Guadalajara, Jalisco; TLX: 068-1708.
(owner)Ing. Eduardo Collignon.
Exp. solvent cap. 150MT.

HIDROGENADORA NACIONAL S.A. (P)
Rio Lerma y Fulton, Tlanepantla.
(1)Nicolas Xacur.
Exp. solvent cap. 250MT.

INDUSTRIAL ACEITERA S.A. (P)
KM. 20½, Carretera, Cuautitlan, Apartado 182, Tlanepantla; TLX: 017-178656 IASAME.
(1)Jose Luis Gomez Sainz.
4 exp. cap. 100T, DeSmet solvent cap. 200T, esp. solvent 350T.

INDUSTRIAL JABONERA LA ESPERANZA S.A. (P SF)
Valores Modernos SA, Fte. a la Estacion de los FFCC, Gomez Palacio, Durango, Ph. 4-1044; TLX: 032-877.
(1)Jesus Baroso Gomez (3)Alfonso Estrada Gonzalez (5,6,8,9)Aureliano Alatorre Mireles (7)Ing. Mario Castaneda Garcia.
4 exp. cap. 150T, Lurgi solvent cap. 150T, storage cap. 740 bu., soy flour. Served by FFCC Nacionales de Mexico.

INDUSTRIAS CONASUPO S.A. (P)
Cuidad Obregon, Sonora; TLX: 032826 (IC-PGME); Main office: Mexico DF.
Exp. solvent cap. 350MT.

INDUSTRIAS CONASUPO S.A. (P)
Gomez Palacio, Durango; TLX: 032826 (IC-PGME); Main office: Mexico DF.
(9)Ing. Miguel Cenicero Vazquez.
Exp. solvent cap. 300MT.

INDUSTRIAS CONASUPO S.A. (R)
KM. 11½, Carretera San Luis, Mexicali, BC.
French stationary basket extractor 400MT, refinery 100MT.

INDUSTRIAS CONASUPO S.A. (P)
Subsidiary of Compania Nacional de Subsistencias Populares, Rio Amazona, No. 62, Ph. 5358414; Plant at: Cuautitlan.
(Owner)Government (1)Francisco Aguilar.
French solvent ext. cap. 600MT.

LOS MOLINOS S.A. (P SF)
Apartado Postal 574, Zona Industrial No. 2, Cuidad Obregon, Sonora, Ph. 3-46-90; TLX: 055-839.
(1)Cesar Estrada O. (6)Francisco Cuevas (9)Ing. Alfredo Garcia S.
5 exp. cap. 350T, 2 solvent cap. 350T, storage cap. 1,000 bu., SOYARINA 50 soybean meal, soy flour. Served by FFCC Del Pacifico.

MOLINOS UNION DEL YAQUI S.A. DE CV (P)
Carretera Internacional, KM. 337, Cuidad Obregon, Sonora, Ph. 3-95-61; TLX: 055-813 (MUYME).
(1)Ing. Roberto Oroz (2)Gustavo G. Talamante (3)Lamberto Antillon (5-gen. mgr.)Alejandro Feliz (6,9)Humberto Villarreal (7)Ing. Alejandro Valenzuila.
EMI solvent cap. 300T, storage cap. 1,845 bu. Served by FFCC Del Pacifico.

NEGOCIACION INDUSTRIAL SANTA LUCIA S.A. (P)
Av. Heroes de Nocupetaro No. 1022, Morella Michoacan, Ph. 2-01-75.
(1)Ma. Guadalupe Cosio V. da de Diez (2)Ing. Maximo Diez Gonzales Cosio (3)C.P. Felipe Torres (4,9)Lic. Jorge Diez Gonzalez Cosio (5)Guillermo Oteiza (6,8)Ramon Flores.
4 exp. cap. 40T, DeSmet solvent cap. 50T, storage cap. 300 bu., SANTA LUCIA soybean meal. Served by FFCC Nacionales de Mexico.

OLEAGINOSAS DE OCCIDENTE S.A. (P SF)
Sabina No. 2052, Colonia del Fresno, Guadalajara, Jalisco, Ph. 1203-48.
(Gen. mgr.)Luis N. Garcia Silva (1)Francisco Echavarria.
5 exp. cap. 70T, solvent cap. 50T, storage cap. 365 bu., soy flour. Served by FFCC Del Pacifico and FFCC Nacionales de Mexico.

LA PALMA S.A. (P)
Industrias Gonzales SA, Monterrey, NL, Sidar y Rovirosa, No. 158, Mexico 9 DF, Ph. 522-03-74.
(1)Jesus Salinas Herrera.
6 exp. cap. 250T, DeSmet solvent cap. 180T, storage cap. 365 bu.-440 bu., soybean meal. Served by FFCC Nacionales de Mexico.

ROMERO HERMANOS S.A. (P)
Tehuacan, Puebla.
Eduardo Gamboa.
French solvent ext. cap 300MT.

RAUL GARCIA Y CIA S.A. (P)
Av. Adolfo Ruiz Cortines, No. 257 Pte., Monterrey, Nuevo Leon, Ph. 51-57-00; TLX: 0382648.
(1)Enrique R. Garcia.
Exp. solvent cap. 700T. Served by FFCC Nacionales de Mexico.

TRON HERMANOS Y CIA SUCRS. S.A. (P SF)
Hs. de Nocupetaro, No. 825, Morella, Michoacan, Ph. 2-0222.
(1)Gregoria Gomez (6,8)Juan Gomez (7)Juan Olliviez.
5 exp. cap. 30T, DeSmet solvent cap. 70T, storage cap. 550 bu., soy flour. Served by FFCC Nacionales de Mexico.

MOROCCO

CIE MAROCAINE D'HUILERIE (C.M.H) (R)
425, Bd. Moulay Ismail, Casablanca, Ph. 24-50-61; TLX: 25901 (COMAHUIL).
(Gen. mgr.)Takali Tawfik.
Soy oil cap. 12,000T.*

LES HUILERIES DE MEKNES (R SF)
Quartier Sidi Said B.P. 2021, Meknes, Ph. 05-314-82; TLX: 41034 (HUILMEK).
(Gen. mgr.)Moulay Messaoud Ben Brahim.
Table oils, olive oil and kernel olive oil.*

HUILERIES' DU SOUSS (R)
Quartier Anza, B.P. 135, Agadir, Ph. 08-23130; TLX: 81015.
(Gen. mgr.)El Balss (1)Bel Hassan.
Soy oil cap. 20,000T/year, table olives, olive oil and soy oil.

LESIEUR (R)
1 Rue Caporal Corbi, Casablanca, Ph. 246636; TLX: 21674.
Oil refining, soy, olive, sunflower and rapeseed.

OLEAGINEUX DU GHARB (R)
Rue 13, Quartier Industrial, Kenitra, Ph. 016-2466; TLX: 91923.
(1)Mohammed Jennane (3)Abderrazak El Haddad (9)Anzemberger.
Soy oil cap. 18,000T/year, storage cap. 2,000T.*

SIGOHARB (R)
B.P. 168, Quartier Industrial, Kenitra, Ph. 016-2738; TLX: 31720.
(gen. dir.)Mohaned Doghmani (1)Olahna Idrissi.
Processing cap. 120,000T, degummed soy oil and soymeal.

SOCIETE D'EXPLOITATION DES PRODUITS OLEAGINEUX (SEPO) (P R IP)
2 Rue Du Caporal Corbia, Casablanca, RN, BP 3094 , Ph. 24-10-96; TLX: 25-076.
(9)Mohamed Smires.
6 screw press cap. 250T/day, DeSmet solvent cap. 200T/day, storage cap. 800,000 bu., soybean meal 44% prot., soap 5,000T, soy meal and flour.*

SOCIETE OLEICOLE DE MEKNNES (SOME) (R)
Quartier Sidi, BP 248, Meknnes, Ph. 05-30865.
(Gen. mgr.)Iahion Hamid.
Oil refining 700T/year, general canning.

SOMATAZ (R)
Rue IBN Kayim, Dokkarat, Fes, Ph. 06-23512, TLX: 51928.
(Gen. mgr.)Tazi Mohamed El Hadi (Tech. dir.)Bouklilia Mohamed.
Soy oil cap. 40T/shift.

STE. MAROCAINE POUR L'INDUSTRIE OLEICOLE (SOMIO) (R)
8 Rue Miara, Dokkarat, BP 256 Fes, Ph. 06-22251.
Soy oil cap. 40T/shift.

UNIGRAL CRISTAL (R IP)
10-14 Rue Mostapha El Maani, BP 253, Casablanca, Ph. 311176; TLX: 21063.
(Gen. mgr.)Hamdouch Mohamed.
Soy oil and soap production cap. 60,000T/year.*

NETHERLANDS

CARGILL B.V. (P)
Affiliate of Cargill Inc., Minneapolis, MN, USA; Coenhavenweg 2, Box 8074, Amsterdam, Ph. 803-803; TLX: 14081.
(1)Ad Blankstijn (2)Simon Oosterman (3)Erick van Rijk (4)Ben Krougman (5)George Henni (6)Teun Verkaik (7,9)Ian Purtle (8)Eaf Paalvast.
Solvent cap.. 3,200T, storage cap. 60,000T, CARGILL soybean meal. Served by Dutch RR.*

CENTRAL SOYA UTRECHT B.V. (P)
Affiliate of Central Soya Inc.; Everard Meijsterlaan 3, Utrecht, Ph. 030-938141; TLX: 844-47479.
(5,6,8,9)Arend Teygeler.*

KONINKLIJKE BRINKERS MARGARINEFABRIEKEN B.V. (R)
Postbus 209, 2700 AE Zoetermeer, Ph. 079-319310; TLX: 31068.
Refining and hydrogenation of soya oil.*

SPEELMAN'S OLIEFABRIEKEN B.V. (P)
Delftweg 100, 3043 NA Rotterdam, Ph. 373011; TLX: 21264.
(1)M. Wyler (2)P. Van Der Wiel (6)G. Kieviet (9)F. Speelman.
Solvent cap. 300T/day.*

UNIMILLS B.V. (P SF)
Lindtsedijk 8, 3336 LE Zwijndrecht, Ph. 078-125144; TLX: 29031.
(1)E. Rohr (4)R.W. Schepers (5)J.E. Batterbee (6)H. Koschorreck (8)J.P. Rus (9)M.H. Van Mens.
Solvent cap. 3,600T/day Europoort, storage cap. 19,500T, UNIMILLS soyameal, complete product range of lecithin for edible, technical and animal applications, soy protein concentrates and extruded textured soy proteins. Served by lighters, barges and lorries.*

NORWAY

A/S DE-NO-FA OG LILLEBORG FABRIKER (P)
Sandakerveien 56, Oslo, Ph. 22-00-50; TLX: 11-181; Plant at: Fredrikstad.
(Mgr. dir.)Egil Cann (Dir. oils/fats)J. Tveito.
Lurgi solvent, approx. soybean operations 250,000T/year.*

RYTTERVIK FABRIKKER (P R)
Affiliate of Jens Hetland, Egersund, Ph. 491581; TLX: 33094.
(1,5,6,8,9)Jens Hetland (2)Jonas Hetland (3,4)Arthur Renberg (7)Gunnar Gunderson.
Solvent cap. 400T, storage cap. 900,000 bu., soybean meal and raw and refined soy oil.*

PERU

CALIXTO ROMERO S.A. (P)
Arequipa N° 802, P.O. Box 100, Piura, Ph. 325352; Plant at: San Jacinto, Ph. 322991.
(1)J.A. Onrrubia (2)Calixto Romer (3,5)Manuel Romero (4)Guillermo Balazrezo (6)Manuel Arribas (7)Angel Irazola (9)Victor Quijandria.
4 exp./screw press cap. 80MT, Miag continuous solvent cap. 65MT, storage cap. 15,000MT, soybean meal.

COMPANIA OLEAGINOSA DEL PERU S.A. (P R SF)
Casilla 2965, Lima 1, Ph. 52-5570; Plant at: Av. Argentina, N° 5027, Callao.
(Mgr. dir.)Carlos Castro (Tech. mgr.)Carlos Ludowieg (Prod. mgr.)Efrain Minaya (1)Octavio Tudela.
4 exp./screw press cap. 220T, DeSmet solvent cap. 200T, storage cap. 20,000T, approx. soybean operations 15,000T/year, salad oils, shortening, margarine and raw material for mixed feeds.

SINDI S.A. (P)
Av. Central 643-10° Piso, San Isidro, Lima, Ph. 40-35-47; TLX: 21187 (PE SINDI); Plant at: Amazonas S/N Piura.
(1)Cristobal Rosas Zorrilla (4)Yonel Nunez (5)Alonso Llosa (7)Jorge Vera (9)Enrique Garcia Verano.
2 exp./screw press cap. 40T, solvent cap. 25T, storage cap. 5,700T.

PHILIPPINES

UNIVERSAL ROBINA CORPORATION (P)
E. Rodriguez Ave., Bagong Ilog, Pasig, Metromanila, Ph. 693-2180; TLX: 3828 (CFCURC PN).
(1)John Gokongwei Jr. (2,5)Henry L. Go (3)Pedro Juanitas (4)Benito Lo(7)Isaac Guanco (9)Jose Caballes.
Solvent hexane cap. 120T-150T, storage cap. 3,000T, STARFEEDS 555 mixed feeds and pellets, approx. soybean operations 80%, 2,000T/month.

PORTUGAL

IBEROL
SOC. IBERICA DE OLEAGINOSAS SARL (P)
Av. Frei Miguel Contreiras, 54-A-3°, P.O. Box 5092, 1700 Lisbon, Ph. 888176; TLX: 12422 (IBEROL); Plant at: Alhandra, Ph. 2501921.
(9)Mario B. Pimentel.
DeSmet solvent, Iberol 44% and 50% soybean meal. Served by CP Lisbon-Porto RR.

TAGOL, COMPANHIA DE OLEAGINOSAS DO TEJO SARL (P SF)
Av. Republica 44, 4 Esp. Lisbon 1, Ph. 767521; TLX: 14187 (TAGOL P); Plant at: Palenca de Baixo-Almada, Ph. 2762584.
(1)Antonio Queiroz e Mello (2,6,8)Manuel Mourao (4)Ramiro Raimundo (7)Raul Duarte (9)Luis Mendes Godinho.
Solvent cap. 600T, storage cap. 1,700,000 bu., TAGOL soybean meal, Sol mixed feeds and pellets, Tagol soy flour.

SOUTH AFRICA

S.A. OIL MILLS (PTY) LTD. (P SF)
Subsidiary of Tiger Oats & National Milling Co. Ltd., Main Reef Rd., Randfontein, Transvaal 1760, Ph. 011-6921720; TLX: 8-7825.
Soy oil expressing and extraction.*

SPAIN

ACEITES Y PROTEINAS S.A. ACEPROSA (P R SF)
Repelega, Portugaleta, Vizcaya, Ph. 94-425-45-00; TLX: 32753.
(1)Rafael Guzman (2)Jose Rafael Guzman (2)Lorenzo Ochoa (4)Eusebio Arnedillo (6,8)Juan Leguina (9)Fernando De Diego.
Press cap. 300T, hexane solvent cap. 1,800T, refinery cap. 250T, storage cap. 200,000 bu., ACEPROSA soybean meal, EMULSOY 200 mesh soy flour, ACEPROSA lecithin, refined oil. Served by Renfe.*

ACEITES VEGETALES S.A. (ACEVESA) (P)
Caracas 23, Madrid 4, Ph. 419-55-12; TLX: 27269; Plant at: Cartagena, Murcia.
(6,8)D. Tomas Lopez Palafox (9)D. Antonio Contreras Gongora.
Hexane solvent cap. 200MT, storage cap. 400,000 bu., ACEVESA soybean meal.

ARLESA (P R SF)
Castell de Pop, 33 Nazaret, Valencia 11, Ph. 23-12-78; Main office: Avda. Generalisimo, 61-8A P, Madrid 16, Ph. 279-63-00.
(1)Jose Antonio Noguera de Roig (2)Hector Colla (5,6)Angel Vallin (7)Alberto Mendez.
DeSmet solvent cap. 765T, storage cap. 924,000 bu., soybean meal, soy oil and lecithin.

ARLESA-EXISA (P R SF)
Carretera del Copero SN Punta del Verde, Sevilla, Ph. 61-02-00; TLX: 27784.
Solvent cap. 400T, storage cap. 590,000 bu., soybean meal and soy oil.*

ARLESA-EXTRASUR (P SF)
Carretera del Copero SN Punta del Verde, Sevilla, Ph. 69-04-58; TLX: 27784.
Krupp solvent cap. 350T, storage cap. 300,000 bu., soy flour.*

ARLESA-SAVYCSA (P)
Extramuros SN Osuna, Sevilla, Ph. 81-12-27; TLX: 27784.
Crushing cap. 200MT/day.

COMPANIA INDUSTRIAL Y DE ABASTECIMIENTOS S.A. (P R SF)
Affiliate of Cargill Inc., Avda. de los Madronos, No. 31, Madrid 33; TLX: 44373 (CIND E); Plants

at: Muelle Transversal-Tarragona and Muelle Alvarez do la Campa-Barcelona.
(1)Alejandro de Mollinedo (2)Joaquin Guardiola (2)Ernst Waldburger (5,6,8)Javier Losantos (7)Jose Lajara.
Crushing cap. 2,400T, storage cap. 2,130,000 bu., crude and fully refined edible soybean meal and oil.*

KELSA S.A. (P)
El Burgo, La Coruna, Ph. 661-150; TLX: 82142.
(1)Adolfo Crespo Setien (1,5,6)Jose Manuel Elosua Rojo (5,6,8,9)Ramon Pitarque Gorospe (7)Jaime Carballeira Bao.
Cap. 900T/day, storage cap. 1,500,000 bu. Served by Sobre Propia Fabrica.

PROTEINAS Y GRASAS S.A. (P)
Reus, Tarragona, Ph. 211208; TLX: 56802.
(1)Alejandro de Mollinedo (2)Jose Urgelles (2)Joaquin Guardiola.
DeSmet hexane solvent cap. 700T, storage cap. 1,200,000 bu.

SOCIEDAD IBERICA DE MOLTURACION S.A. (P)
Paseo de Recoletos, 16-7°, Madrid 1, Ph. 225-4524; TLX: 27216; Plant at: Pontejos, Santander, Ph. 27-29-16; TLX: 35860.
(1)Alfredo Gonzalez Diez (2)Agustin Escagedo Garcia (3)Antonio Romero Aparicio (4)C. Naveira (7)J.L. Emparanza (8)Ignacio Aritio (9)J.M. Loscertales.
3 exp./screw press cap. 240T/day, DeSmet solvent cap. 2,000T/day, storage cap. 2,000,000 bu., PROTESOYA and SUPERSOYA soybean meal.*

SWEDEN

MARGARINBOLAGET AB (R)
Box 300 25, S-104 25 Stockholm, Ph. 08-54-13-60; TLX: 195-71 (MARG S); CABLE: MARGARIN STOCKHOLM.*

SWITZERLAND

FLORIN LTD. OIL & FATWORKS (P)
Hofackerstrasse 54, CH-4132 Muttenz, Ph. 061-61-01-01; TLX: 62436; Plant at: Basel.
(1)L. Florin (2,5,9)R. Florin (6)A.Miesch.
Exp. cap. 80T, storage cap. 2,000T, FLORIN soybean meal. Served by SBB RR.*

SAIS (P)
Affiliate of Unilever NV Rotterdam; Forrlibuckstrasse 10, CH-8031 Zurich; Plant at: 9326 Horn, Ph. 01-44-44-71.
(1)W. Hefti (5)H.U. Michel (6)F. Dinkel (7,9)E.A. Wyss (8)Th. Miller.
Exp./solvent cap. 300T, storage cap. 800,000 bu. Served by Swiss Federal RR.*

TAIWAN

ALL SINCERE INDUSTRIAL CO. LTD. (P R SF)
38 Chung Shan Rd., Kaohsiung, Luchu 821, Ph. 064-862201; Office at: 7th Floor, 477 Tunhua S, P.O. Box 1851, Taipei, Ph. 02-7524567.
(1,5)C.H. Tsai (6,8)K.H. Tsai.
Exp. cap. 25T/day, solvent cap. 300T/day, storage cap. 40,000T, YUAN PAO feeds, soybean meal, salad oil, corn oil and grits, swines and canned foods.*

CHIA FHA INDUSTRY CO. LTD. (P R SF)
29 Tattung St., Taichung, Shalu, Ph. 046-223221; Plant at: 1 Chunlin Rd., Erchiao Village, Hsiaokang, Kaohisiung, Ph. 07-8219571.
(1)C.C. Hung (5)H.Y. Wang (9)A.Y. Hung.
Solvent cap. 200T, storage cap. 30,000T, FUSHOU soybean meal, cake, mixed feeds, soy oils, salad and safflower oil.*

CHIA HSIN FLOUR, FEED & VEG. OIL CORP. (P R SF)
1-teh Li, Peitou, Taipei, Ph. 02-8912253; Office at: 6th Floor, 219 Sec. 4, Chunghsiao E. Road, Ph. 02-7525320.
(1)Y.C. Wang (5)C.S. Chao (7)C.S. Chang.
Solvent cap. 200MT, storage cap. 50,000MT, CHIA HSIN soybean meal, mixed feeds and pellets, CHIA HSIN salad oil, swines, and soy oil. Served by TRB RR.*

CHUAN YUAN OIL MILL CO. LTD. (P R SF)
117 Hweilai St., Yuanlin, Chang Hwa, Yanlin 510, Ph. 048-323464.
(1)Y.Y. Hong Chen (5-chm.)S.Y. Chen (6,8)S.F. Liang.
Solvent cap. 450T, storage cap. 7,000T, YUAN CHUAN soybean meal, mayonnaise, refined soy oil and CHUAN YUAN salad oil and mixed feeds, approx. soybean operations 96%.*

EAGLE INDUSTRY CORP. (P R SF)
427 Chen Kong Rd., Shanhua, Tainan Hsien, Shanhua 741, Ph. 064-838201; Office at: 12th Floor, 310 Sec. 4, Chung Hsiao E. Rd., Taipei, Ph. 02-7811161.
(1,5)C.W. Yuan (4)L. Kwei (6,8)T.H. Chang (9)I.C. Soo.
Solvent cap. 250T-300T, storage cap. 700,000 bu., EAGLE soy salad oil, soybean meal. Served by TRB RR.*

GREAT WALL ENTERPRISES CO. LTD. (P R SF)
Tainan, Yungkang 711, Ph. 062-231111; Office at: 8th Floor, 310 Sec. 4, Chung Hsiao E. Rd., Taipei, Ph. 02-7716677.
(Chm.)C.S. Chao (1,5)H.J. Han (6,8)M.N. Kao (9)K.L. Tseng.
Solvent ext. cap 200T, storage cap. 15,000T, FONG NANG soybean meal, FU-NONG mixed and pellet feeds, refined soy oil, salad oil, lecithin, wheat flours, chinese noodles.*

HSIAOKANG SUGAR MILLS TSC (P R SF)
133 Hsiaokang Rd., Kaohsiung 800, Ph. 07-8214160; Office at: 25 Paoching Rd., Taipei, Ph. 02-3110521.
(Chm.)H.C. Chang (1)H.S. Tan (6,8)H.M. Wu (7)O.W. Chen (9)J.N. Wu.
Solvent cap. 340T, storage cap. 22,000T,

CAHHO soybean meal and TAITANG salad oil, soy flour, mixed and pellet feed.*

HUIE SHENG OIL MILL CO. LTD. (P R SF)
618 Fwanchiu Rd., Kaohsiung, Luchu 821, Ph. 064-863-311; Office at: Miaoli, 102 Wenshan, Wenshan Li, Ph. 037-320826.
(1,6,8)S.Y. Wang (5-chm.)W. K. Wang (9)S.C. Wang.
Solvent cap. 300T, storage cap. 18,000T, SHENG-LI soybean meal and oil, salad oil, commercial lecithin and mixed feeds, swines. Served by TRB RR.*

PRESIDENT ENTERPRISES CORP. (P R SF)
2-20 Yan Harng, Yangkang, Tainan, Yungkang 711, Ph. 062-232171; Office at: 5th Floor, 66-1 Sec. 1, Chungking S. Rd., Ph. 02-3317571.
(1)C.Y. Kao (2)M.T. Chiu (5)C.C. Chung (6,8)S.J. Wu.
Solvent cap. 250MT, storage cap. 45,000T, TUNGYI salad oil, soy oil and meal, pellets and mixed feeds, commercial lecithin, shortening, margarines, sesame oil, soy sauce, soy milk, canned foods, swines, dairy products, wheat flour, chinese noodles and breads.*

TAI HWA OIL INDUSTRIAL CO. LTD. (P R SF)
52-1 Minchu 1st Rd., San-Ming District, Kaohsiung 800, Ph. 07-2313166; Office at: 37 Lane 67, Linsheng N. Rd., Taipei, Ph. 02-5110121.
(Chm.)Y.H. Chen (1,9)Y.P. Chen (5)Y.T. Chen.
Solvent cap. 200T, storage cap. 20,000T, CHING-LU soybean meal and GOLD brand soy oil, salad oil and safflower oil.*

TAY SHAN ENTERPRISE CO. LTD. (P R SF)
Fuchiung Rd., Chang Hwa, Yuanlin 510, Ph. 048-322122; Plant at: Tienchung; Office at: 14th Floor, 178 Sec. 2, Nanking E. Rd., Taipei, Ph. 02-5214152.
(1)J.T. Chan (5,6,8)J.C. Chan.
Solvent cap. 500T, storage cap. 15,000T, TAY SHAN soybean meal, mixed feeds, pellets and soy oils, salad oil, safflower oil, swines, canned foods.*

THAILAND

INDUSTRIAL ENTERPRISES CO. LTD. (P)
179 Surawongse Rd., Bangkok, Ph. 2354855-9; Plant at: 39-6 Tivanon Rd., Pak Kret, Nonthaburi, Ph. 5884147.
(Mgr. dir.)Adun Adulayavichit (Asst. mgr. dir.)Viraj Sasivongbhakdi (6)Naruthep Anmaharpong (9)Boonsri Krishnakan.
Solvent cap. 600T/day, storage cap. 60,000T, manufacturers pellets.*

THAI THEPAROS FACTORY ROP. (P)
206 Moo 6, Taiban Rd., Samutpragarn, Ph. 3950177.
(1)Chai Sae Khow (2,5)Winyarat Krailads (9)Vacharothayangul Som Sardi.
5 exp./screw press cap. 20T/day, storage cap. 750T.

THANAKORN VEGETABLE OIL PRODUCTS CO. LTD. (P)
P.O. Box 13-5, Phra Pradaeng, Bangkok 13, Ph. 462-5905; Plant at 99 Soi Thanakorn, Phra Samut Jedi Rd., Samut Prakarn.
(1)Vibul Sarakitpricha.
Solvent cap. 400T, storage cap. 60,000T, pellets, approx. soybean operation 120,000T/year.*

TUNISIA

AFRICA SARL (R)
Rte. de Monastir, Sousse, Ph. 20-774; CABLE: AFRICA SOUSSE USINE.
Soy oil refining.

COMMERCIALE ET INDUSTRIELLE SARL (R)
Rte. de Monastir, Sousse, Ph. 21-867; CABLE: SOHACI SOUSSE USINE.
Soy oil refining.

COOP. AGRICOLE ET INDUSTRIELLE ZOUILA (R)
Ave. Parnet Hached, Mahdia, Ph. 81-584; CABLE: ZOULICAOP.
Soy oil refining.

COOP. OLEICOLE TNE. (R)
Rte. de Monastir, Sousse, Ph. 20-387.
Soy oil refining.

SATHOP (R)
Plage Poudriere, Sfax.
Soy oil refining.

SAVONNERIE AFRICAINE S.A. (R)
Rte. de Sousse, KM. 5-8, Tunis, Ph. 295-503; TLX: 12-548 (USINE).
Soy oil refining.*

SIOS-ZITEX (R)
Route de Gabes, SFAX.
Soy oil refining.

SMOILIVE (R)
Route de Gabes, SFAX.
Soy oil refining.

STE. MONASTIRIENNE (R)
Rue du Port, Monastir, Ph. 61-379.
Soy oil refining.

STE. MONCEF ABDELMAOULA (R)
Rte. du Kef, Den-Den, Tunis, Ph. 210-008.
Soy oil refining.

STE. STARHUIL (R)
Jebel Jelloud, Tunis, Ph. 491-684.
Soy oil refining.

TURKEY

ORDU SOYA SANAYIIMUESSESESI (P R SF IP)
Affiliate of Sumerbank, Ordu, Ph. 1420.
(1)A. Sami Tolgay (2)Turgut Ozdag (3)Kutlay Alaybeyoglu (4)Ayhan Baruonu (6,8)Kemal Erdem (7)Atilla Atilgan (9)A. Sami Tolgay.

Bollman ext. cap. 36T, storage cap. [illegible],000T, SUMERBANK soy oil, soy flour and raw lecithin, 15T/year.

VENEZUELA

EXTRACTORA NACIONAL DE OLEAGINOSAS S.A. (ENDOSA) (P SF)
Protinal CA, P.O. Box 83, Valencia, Ph. 52081; Plant at: El Morro, Valencia.
(1)Antonio Alamo (2)Rolando Carrillo (5)L.M. Yanes (6,8)Oscar Ibarra (7)Bruno Bonardo (9)Omar Hernandez.
Solvent cap. 180T/day, storage cap. 420,000 bu., PROTINAL soybean meal, mixed feeds, SOYARINA soy flour, approx. soybean operations 45,000T/year.

C.A. GRASAS DE VALENCIA (P)
Av. Henry Ford, Zona Industrial Sur., Valencia, Ph. 332022; TLX: 41352.
(1)Eduardo Lopez de Ceballos (2)Pedro Jose Lara Fernandez (5,6,8)Juan Marinez Campillo (7,9)Julio Martinez.
Solvent cap. 250T.

LAS LLAVES S.A. (P)
Avenida Principal Los Cortijos de Lourdes, Caracas, Ph. 34-31-31; TLX: 42-480 (LLAVE);Plant at: Avenida La Paz, Puerto Cabello.
(1)William F. Coles (2)Alberto T. Phelps (3)Andres Boulton (4,5)Juan L. Martinez Matilla (6,7,8,9)Gaston Brunicardi.
Solvent cap. 150T, storage cap. 30,000 bu., LAS LLAVES soybean meal, approx. soybean operations 10,000T.

PROMASA S.A. (P SF)
Encrucijada Chivacoa, Estado Yaracuy; Office at: Productos de Maiz, S.A., Ph. 76-77.
(1)Gustavo Gimenez (2-gen.dir.)Alberto Olivares (7)Antonio Rada (9-chief of prod.)Gustavo Reyes.
Exp. cap. 50T, solvent cap. 100T, storage cap. 150,000 bu., PROCRIA soybean meal, mixed feeds, pellets, soy flour, approx. soybean operations 40%.

WEST GERMANY

BROKELMANN & CO. (P R)
Oelmuhle, Raffinerie, Speicherstr. 14-18, Ph. 02381; TLX: 0828843.
(1)Inhaber Herr Friedr. Wilh. Brokelmann (3)Herr Strothe (4)Herr Tohmas (5)Herr Luley (6)Herr Horn Prokurist (8)Herr Stute (9)Herr Gulinsky Prokurist.
4 exp. cap. 600T, hexane solvent cap. 800T, storage cap. 15,000T.*

HARBURGER OELWERKE BRINCKMAN & MERGELL (P)
Seehafenstrasse 2, D-2100 Hamburg, Harburg, Ph. 77-11-41; TLX: 02-17-681.
(1)Max-John Brinckman (1)Arnold F. Mergell (4)K. Gildemeister (5,8)K.G. Buchholz (6)H. Simonis (7,9)R. Merkle.
Lurgi ext. cap. 1,100T, storage cap. 900,000 bu., HOBUM soybean meal. Served by On Hamburg Unterelbe, Anschlussgleis 11RR.*

NOBLEE & THOERL GmbH (R)
Div. of Henkel KGaA, Duesseldorf. Seehafenstr. 24, P.O. Box 9C-10-40, 2100 Hamburg 90, Ph. 77-16-81; TLX: 02-177-13 (NOBLE D).
Manufacture hardened, fractionated and interesteryficated oils and fats.*

O & L SELS KG (P)
Dusseldorfer Str. 101, 404 Neuss, Rhein, Ph. 24054.
(1)Ludwig Sels (2)O.G. Sels (4)Walter Schmitt (8)J.P. Haselhorst (9)Hans Muller.
6 exp. cap. 450T, solvent cap. 2,100T, storage cap. 1,000,000 bu.

OELMUEHLE HAMBURG AG (P SF)
P.O. Box 930-320, D-2102 Hamburg 93, Ph. 75-19-41; TLX: 02-163537.
(1,4)H. Tiefenbacher (2,5)A. Wissel (3)K. Thiemann (6,8)G. Wegener (7,9)H. Thiem.
Solvent cap. 3,500T, refinery, soy lecithins and derivatives, protein meals and flours.*

OELWERKE NOURY & VAN DER LANDE (P SF)
Zweigniederlassung der Akzo Chemie GmbH, Industrie Strasse, Emmerich, Rhein, Ph. 02822-74-1.
(1)L. Tjerkstra (4)L. Schwarz (5,6,8)B. Gesthuysen (7)M. Kock.
Pressing cap. 250T, DeSmet solvent cap. 450T, storage cap. 360,000 bu., VANDERLANDE soybean meal and soy flour, approx. soybean operations 65%. Served by Deutsche Bundesbahn RR and Rhine River barges (own port).*

Jb SCHMIDT SOEHNE (P)
P.O. Box 6551, Odernheim; Plant at: Mainz, Ph. 06755-316; TLX: 042516.
Gerhard Schmidt.
Storage cap. 373,000 bu.*

SOYA MAINZ GmbH & CO. KOMMANDITGESELLSCHAFT (P)
Dammweg 2, Postfach 3767, 6500 Mainz 1, Ph. 06131; TLX: 0418761.
(5)Dieter Berres (6)Albert Wolf (8)Klaus Huerter.
Cap. 2,500T, storage cap. 1,000,000 bu.*

THORL'S VEREINIGTE HARBURGER OELFABRIKEN (P)
Zweigniederlassung der Union Deutsche, Lebensmittelwerke, GmbH, D 2100 Hamburg 90, Ph. 040-771241.
(4)K. Blessing (9)K. Eckert.
Solvent cap. 2,900T, storage cap. 28,000T, oilseeds, UNIMILLS SOYASCHROT, approx. soybean operations 50%. Served by German RR, lighters and seagoing vessels.*

C. THYWISSEN (P R SF)
Olfabrik, D-4040, Neuss, Rhein, Ph. 02101; TLX: 08517803.
(1)Hermann Thywissen (5)Matthias Fischer (6)Heinrich Asshauer (6)Dietrich Leimert (8)Rainer Fries.
14 exp. cap. 500T, solvent cap. 1,000T, storage cap. 350,000 bu., refining and lecithin.*

UNIMILLS (P SF)
Vertriebsgesellschaft fur Ernahrungsfette, Ole und Futtermittel mbH, Dammtorwall 15, Unileverhaus, Box 101509, D-2000, Hamburg 36, Ph. 040-34901.
(1)E. Rohr (2)A. Lackowski (3)G. Hatje (4)J.R.B. Zeeuw (5)J.E. Batterbee (6-crude)H. Koschorreck (6-processed)A. Bartels (8)R. Marussi.
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UNION DEUTSCHE LEBENSMITTELWERKE GMBH (P)
Olwerke Spyck, Niederrhein 1, Postbox 2080, D-4190 Kleve, Ph. 02821-9041; Office at: Postbox 101509, Dammrowall 15, Unileverhaus, D-2000 Hamburg 36.
(4)B. Zawodny (9)H. Habig.
Solvent cap. 790T, storage cap. 18,000T, oilseeds, UNIMILLS SOYA-SCHROT. Served by German RR and Rhine barges.*

UNION DEUTSCHE LEBENSMITTELWERKE GMBH (P)
Oil Milling Div. of Unilever, Unileverhaus, Dammtorwall 15, P.O. Box 101509, D-2000, Hamburg 36, Ph. 040-34901.
(1)E. Rohr (2)A. Lackowski (3)G. Hatje (4)J.R.B. Zeeuw (5)J.E. Batterbee (6)H. Koschorreck (8)R. Marussi.*

VEREIN DEUTSCHER OELFABRIKEN (P)
Zweigniederlassung der Union Deutsche Lebensmittelwerke GmbH, 6800 Industriehafen, Bonadiestr. 3-5, D-6800 Mannheim, Ph. 0621-37041.
(4)G. Willi (9)W. Brod.
Solvent cap. 3,200T, storage cap. 30,000T, oilseeds, UNIMILLS SOYA-SCHROT, approx. soybean operations 50%. Served by German RR and Rhine barges.*

WALTER RAU NEUSSER OEL UND FETT AG (R)
Industriestrasse 36, 4040 Neuss, Ph. 2101-208-0; TLX: D-08-517-827.*
Refining, hydrogenation, soy and other vegetable oils.

WILHELM CONNEMANN (P)
Saegemuehlenstrasse 45, D-2950 Leer, Ostfriesl, Ph. 0491-4571; TLX: 02-7734.
(1,5)Joosten Connemann (4)Lothar Weibezahl (6)Klaus Juergen Dierks (6)Erich Ulferts (7)Gerhard Loecken (8)Enno Wolckenhaar.
5 exp. cap. 650T, solvent cap. 900T, storage cap. 5,000T, CONNESOY 44% and 50% pellets, meal and flour, sunpellets 30%, defatted wheat germ flour 30%, refinery 100T, sunoil, refined and winterized rapeseed, maize and wheat germ oil. Served by DB and River Elms, own wharf in Leer Port, Draft of 15-ft.*

ZIMBABWE

BLUE RIBBON FOODS LTD. UNITED REFINERIES DIVISION
P.O. Box 873, Bulawayo, Ph. 68531; TLX: 3347 (RH).
(1)M. Anderson (2)J.H. McBain (3)B. Kidd (6)A. Kendall (7,9)N. Stacey (8)R. Cain.
5 exp./screw press cap. 165T/day, Extractotechnics solvent cap. 175T/day, storage cap. 16,000T, soybean meal, WIGHTMANS mixed feeds and pellets. Served by National Railways of Zimbabwe.*

Needed: deodorizer distillates

We have a continuing need for distillates from the deodorization of unsaturated vegetable oils, such as soybean, cottonseed, safflower and sunflower. Value depends on stigmasterol and tocopherol content. If you are now deodorizing these types of oil, or are planning a new plant, we can provide you with information on the various kinds of deodorizers and distillate recovery systems and advise you about the effects of deodorizer operating conditions (temperature, time, vacuum and stripping steam). Contact Robert Winters, Henkel Corporation, 4620 West 77th Street, Minneapolis, Minnesota 55435, telex 29-0472. Phone (612) 830-7810.

Henkel Corporation

Henkel

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Via Gabriele d'Annunzio 2, Genova, Ph. 010-54831; TLX: 270068 (COSTA I); Plant at: Vignole Borbera (Alessandria).
Lecithin.*

ITALIANA OLII E RISI S.p.A.
Via Romolo Gessi, 20, Ravenna, Ph. 31222; Plants at: Aprilia, Latina; Porto Corsini, Ravenna; Porto Marghera, Venice.
LECITOIL soy lecithin.

JAPAN

AJINOMOTO CO. INC.
5-8, 1-Chome, Kyobashi, Chuo-ku, Tokyo, Ph. 272-1111; Plant at: Yokohama.
Lecithin.

HOHNEN OIL CO. LTD.
Mitsui Life Insurance Bldg., 1-2-3, Ohtemachi, Chiyoda-ku, Tokyo, Ph. 211-6511; Plants at: Shimizu; Kobe.
Lecithin.

NIHON KOYU CO. LTD.
No. 32 Bungo-cho, Higashiku, Osaka, Ph. 943-0740; Plant at: Kurashiki; Mizushima; Okayama. Offices at: Fukuoka; Hiroshima; Nagoya; Okayama; Osaka; Takamatsu; Tokuyama; Tokyo.
Lecithin.

THE NISSHIN OIL MILLS, LTD.
23-1, 1-Chome, Shinkawa, Chuo-ku, Tokyo, Ph. 555-6923; Plants at: Kobe; Yokohama.
NISSHIN Lecithin.

SHOWA SANGYO CO. LTD.
2-1, 2-Chome, Uchikanda, Chiyoda-ku, Tokyo 101, Ph. 257-2020.
SHOWA Lecithin.*

MEXICO

GALLETERA MEXICANA S.A.
(GAMESA)
Ciudad Obregon, Sonora.
Lecithin.

NETHERLANDS

UNIMILLS B.V.
Lindtsedijk 8, 3336 LE Zwijndrecht, Ph. 078-125144; TLX: 29031 (UMIL NL).
BOLEC lecithin, complete product range.*

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ACEITES Y PROTEINAS S.A.
(ACEPROSA)
Repelega, Portugalete (Vizcaya), Ph. 94-425-45-00; TLX: 32-753.
ACEPROSA lecithin.*

ARLESA
ACEITERIAS REUNIDAS DE LEVANTE S.A.
Castell de Pop, 33-Nazaret, Valencia 11, Ph.

23-12-78; Main office: Avda. Generalisimo, 61-8a p. Madrid 16.
Lecithin.

TAIWAN

GREAT WALL ENTERPRISES CO. LTD.
Niaoshong Vill., Yungkang, Tainan, Ph. 062-23111 or 062-23118; Other location: 8th Floor, 310 Sec. 4, Chunghsiao E. Rd., Taipei, Ph. 02-771-6677.
Lecithin.*

HUIE SHENG OIL MILL CO. LTD.
618 Fwanchiu Rd., Kaohsiung (Luchu) 821, Ph. 064-863-311; Other locations: Miaoli; 102 Wenshan; Wenshan Li.
SHENG-LI commercial lecithin.*

PRESIDENT ENTERPRISES CORP.
2-20 Yan Harng, Tainan Yungkang 711, Ph. 062-232-171 or 232-190; Other location: 5th Floor 66-1 sec. 1, Chungking S. Rd., Taipei, Ph. 02-331-7571.
Commercial lecithin.*

WEST GERMANY

LUCAS MEYER
Ausschlaeger Elbdeich 62, 2000 Hamburg 28, Ph. 781701.
Edible lecithin and lecithin products for the food and pharmaceutical industry. Fluid, deoiled and fractionated grades.*

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A complete line of lecithin products; Natural, modified, fractionated and oil-free lecithin.*

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Lecithin.*

C.THYWISSEN
Industriestrasse 33, Postfach 71, D-4040 Neuss, Ph. 02101 or 26081; TLX: 08517803.
Lecithin.*

UNIMILLS VERTNEBSGESELLSCHAFT FUR ERNAHRUNGSFETTE
Ole und Futtermittel mbH, Dammtorwall 15, Unileverhaus, Box 101509, Ph. 040- 34901; TLX: 214571 (UMIL D).
BOLEC lecithins, complete line.*

MEAT ANALOGS, BINDERS INCLUDING TEXTURIZED SOY PROTEINS

UNITED STATES

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4666 Faries Pkwy., Decatur, IL 62526, Ph. 800-637-5850.
TVP via extrusion process in meat flavors, nut flavors and unflavored.

BERNARD FOOD INDUSTRIES INC.
1125 Hartrey, P.O. Box 1497, Evanston, IL 60204, Ph. 312-273-4497; Other location: 222 S. 24th St., San Jose, CA 95103.
Manufacturer of institutional food products. Texturized soy proteins including TEX PRO 1 (hamburger), TEX PRO 2 (meat loaf), TEX PRO 3 (sloppy joe), TEX PRO 4 (chili mix), TEX PRO 5 (taco), TEX PRO 6 (veal and fish), TEX PRO 7 (spaghetti and lasagna) and TEX PRO 8 (pizza topping).

CARGILL INC.
P.O. Box 9300, Minneapolis, MN 55440, Ph. 612-475-6318.
Textured soy proteins.

CENTRAL SOYA
Chemurgy Div., 1300 Fort Wayne National Bank Bldg., Fort Wayne, IN 46802, Ph. 219-425-5420; TLX: 232-410; INT'L. TLX: 0232-410.
Meat binders, defatted, low-fat and lecithinated soy flours, soy grits, soy protein concentrate (Response), textured soy flour (Centrex & Bontrae) and soy protein.

CUSTOM FOOD PRODUCTS INC.
730 N. Albany Ave., Chicago, IL 60612, Ph. 312-722-7500.
Sausage and loaf binders for sausage trade. Hamburger and loaf seasonings and binders for institutional trade.

DAIRYLAND PRODUCTS INC.
5345 W. 125th St., Savage, MN 55378, Ph. 612-890-5305.
Ground meat binders.

DAWSON FOOD INGREDIENTS, INC.
7901 Flying Cloud Dr., Suite 230, Eden Prairie, MN 55344, Ph. 612-944-6696; TLX: 290-473.
Ground meat binders and meat analogs.

FARMLAND AGRISERVICES, INC.
Manufactured Products Div., 960 N. Halstead, P.O. Box 1667, Hutchinson, KS 67501, Ph. 316-663-5711; TWX: 910-740-1528.
Ground meat binders and Ultra-Soy textured soy protein.

FIRST SPICE MIXING CO.
33-33 Greenpoint Ave., Long Island City, NY 11101, Ph. 212-361-2556; Other locations: 185 Arkansas St., San Francisco, CA 94107; 98 Tycos Dr., Toronto, ONT., Canada.
Texite brand extender and binder for meat products.

GARRISON PRODUCTS INC.
1471 Paddock Dr., Northbrook, IL 60062, Ph. 312-729-4906.
Meat and mushroom analogs.

GRIFFITH LABORATORIES
12200 S. Central Ave., Alsip, IL 60658, Ph. 312-371-0900.
Proteinate GL-301, Procase, Pro-Blend and

Promax ground meat binders. Promate, GSVP, GSPC and custom extruded textured soy proteins.

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Soy sausages (three varieties), burger, canned and packaged sandwich spread and "meat" balls. Meatless Chicken made with spun soy fiber, Meatless Swiss Steak and Sizzle Burger.

MILES LABORATORIES INC.
Grocery Products Div., 7123 W. 65th St., Chicago, IL 60638, Ph. 312-458-6100.
Meat analogs and textured soy proteins.

NABISCO INC.
Special Products Div., East Hanover, NJ 07936, Ph. 201-884-0500.
Ad-Vantage TVP for use with meat, fish or poultry.

NORTH AMERICAN LABORATORY CO. INC.
1717 W. 10th St., Indianapolis, IN 46222, Ph. 317-635-9500.
Binders for meat products and textured soy proteins flavored to be used for partial meat replacement.

RALSTON PURINA CO.
Checkerboard Square, St. Louis, MO 63188, Ph. 800-325-7136.
Purina Protein 220 & 500E and Surpo 620 ground meat binders. Supro 50 textured soy proteins.

A.E. STALEY MFG. CO.
Protein Div., P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
PROCON soy protein concentrate, textured PROCON soy protein concentrate, BLAND 50 soy flour, 15-90 PDI soy flour and grits and MIRE-TEX, NUTR-MATE and VYTAL textured vegetable protein.

WILLIAMS FOODS INC.
1900 W. 47th Pl., Westwood, KS 66205, Ph. 913-831-2300; Plant at: 1502 S. Madison, Webb City, MO 64870.
Williams TVP with seasonings.

WORTHINGTON FOODS DIV. OF MILES LABORATORIES INC.
900 Proprietors Rd., Worthington, OH 43085, Ph. 614-885-9511.
Vegetable protein meat-type analog entrees, over 45 canned, frozen and dehydrated products, simulating beef, pork and poultry.

AUSTRALIA

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148 Fox Valley Rd., Wahroonga N.S.W., 2076, Ph. 480206; TLX: 22064.
Canned vegetable protein foods and textured vegetable protein.*

BRAZIL

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Technologia Em Vegetais E Proteinas S.A., Cx. Postal 632 - CEP 13100, Campinas, SP, Ph. 2-09-89; TLX: 019-1221.
Textured vegetable protein.

CHILI

CRAV S.A.
Calle Cochrane 867-2 Piso, Valparaiso, Ph. 3081; TLX: 30480 (CRAV CL); Plant at: Vina del Mar.
CRAV textured soy protein.

COLOMBIA

GRASAS S.A.
Calle 11, No. 18-113, Buga-Valle, Ph. 2021; TLX: 05866.
CARNAVIT textured vegetable protein.

ENGLAND

BRITISH SOYA PRODUCTS LTD.
Puckeridge, NR Ware, Hertfordshire, Ph. (Ware) 821291; TLX: 81352.
BESPRO textured proteins.*

INDIA

VED BRAT & CO.
39C Prem House, Connaught Pl., New Delhi 110 001, Ph. 352761 or 615100.
Textured vegetable protein.*

JAPAN

AJINOMOTO CO. INC.
5-8, 1-Chome, Kyobashi, Chuo-ku, Tokyo, Ph. 272-1111; Plant at: Yokohama.
ESSAM PROTEIN-S,L, PRORICH, AJIPRON-E,M,S.

FPPM LIMITED
SKF Bldg., 9-1,1-Chome, Shiba-Daimon, Minato-ku, Tokyo 105, Ph. 03-438-2021; Plant at: Izumisano-City, Osaka-fu.

FUJI OIL CO. LTD.
Nissei, Midosuji Hachimancho Bldg., 6-1 Hachiman-cho, Minamiku, Osaka 542, Ph. 06-213-8151.
IPSOTEX FUJINIK, textured soy protein.

JAPAN SOY PROTEIN CO. LTD.
Sumiyoshicho Izumisano, Osaka, Ph. 0724-63-5105.
Textured soy protein.*

MILES-KYOWA CO. LTD.
Aoyama Bldg. 2-3, Kita-Aoyama 1-Chome, Minatoku, Tokyo, Ph. 03-402-9144; TLX: 2423548 (MILES J).
MAXTEN, textured vegetable protein.*

NIHON KOYU CO. LTD.
No. 32 Bungo-Cho, Higashiku, Osaka, Ph. 943-0740; Offices at: Fukuoka; Hiroshima; Nagoya; Okayama; Osaka; Takamatsu; Tokuyama; Tokyo.
NIKOFIMEE spun protein for food.

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MIX

Yelkin Lecithin the natural product advantage for 50 years

Yelkin Lecithin reduces emulsifier costs, promotes more rapid and homogeneous mixing of ingredients, extends shelf life and improves texture and moisture retention. Yelkin Lecithin, the totally natural product from Ross & Rowe does all this and more. Here are a few of the ways it can work for you.

In prepared Cake, Pancake, and Waffle Mixes, Yelkin Lecithin promotes uniform mixing of ingredients when processed into the finished product. In the case of pancake and waffle mixes, Yelkin Lecithin also serves as a release agent.

Yelkin Lecithin promotes better distribution of the shortening and improves dough handling properties by requiring less dusting flour on forming machines. Because of its emulsifying effect, better moisture retention and increased shelf life are more noticeable.

Yelkin Lecithin added to the dough or batter insures a more homogeneous mixture of ingredients and acts as a lubricant for rotary-die cutters.

The addition of Yelkin Lecithin to such products as caramels, nougats and taffies, aids the mixing of sugar, prevents greasiness, graining and streaking.

Yelkin Lecithin does it naturally

For further information write or contact:

ROSS & ROWE, DIVISION OF **ADM**
Box 1408 Decatur, Illinois 62525 Telephone: 217-424-5801

KOREA

DONG BANG OIL
AND FLOUR MILLS CO., LTD.
No. 2 Yangpyung-dong 4-ka, Yungdungpo-ku, Seoul, Ph. 633-3921; TLX: K27334 (DBSOY); Plant at: Jin Hae, Kyung Nam, Ph. 2-2161-3.
DONG BANG textured soy protein.*

MEXICO

ALIMENTOS COL-PAC
KM 13 Carratera Huatabampo, Apartado No. 502, Navojoa Sonora, Ph. 2-08-42.
Meat analogs, textured soy protein.

INDUSTRIAL DE ALIMENTOS S.A.
146 Poniente 789, Col. Ind. Vallejo, Mexico 17 DF.
Textured soy protein.

PRODUCTOS NUTRICIONALES S.A.
(PRONASA)
A Gea y DBFlo, Juarez, Celaya, Guanajuato, Ph. 545-83-22; Other location: Lago Xochimilco 225, Mexico 17 DF.
MAXTEN TEMPTEIN, textured soy protein.

NETHERLANDS

UNIMILLS B.V.
Lindtsedijk 8, 3336 LE Zwijndrecht, Ph. 078-125144; TLX: 29031 (UMIL NL).
Textured soy protein.*

SOUTH AFRICA

TIGER PROTEIN INDUSTRIES PTY. LTD.
P.O. Box 575, Randfontein 1760 N/A, Ph. 011-693-4231; TLX:8-3319 SA.
Textured vegetable protein, textured soya concentrate, meat analogs.*

THAILAND

RAMA FOOD PRODUCT CO., LTD.
Bangkok, Ph. 3923002; TLX: 82998 (HYATT TH).
Textured soy protein.

SOY BEVERAGES

UNITED STATES

COCA-COLA CO.
P.O. Drawer 1734, Atlanta, GA 30301, Ph. 404-898-2121.
Soymilk beverages for Brazil (SACI), whey beverages for Mexico (SAMSON).

FEARN SOYA FOODS
DIV. OF RICHARD FOODS CORP.
4520 James Pl., Melrose Park, IL 60160, Ph. 312-345-2335.
Fearn's pure soy powder for making soy milk.

LOMA LINDA FOODS
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Powdered and liquid soy milk in five varieties.

QUONG HOP & CO.
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Bottled soymilk; CAROB, HONEY, PLAIN and SUGAR.

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900 Proprietors Rd., Worthington, OH 43085, Ph. 614-885-9511.
Processing and packing powdered soy milk (SOYAMEL).

AUSTRALIA

SANITARIUM HEALTH FOOD CO.
148 Fox Valley Rd., Wahroonga N.S.W. 2076, Ph. 480206; TLX: 22064.
Soya milk, liquids.*

BRAZIL

OLVEBRA SA-INDUSTRIA E
COMERCIO DE OLEOS VEGETAIS
Praca Osvaldo Cruz, N° 15-16° Andar, Porto Alegre, RGS, Ph. 21-2200; TLX: 051-1225 (OLVE BR).
Powder soy milk. Trademark VIOLETA.

CANADA

MACDOWELL BROS.
P.O. Box 141, Brockville, Ontario, Ph. 613-342-3606. Other location: Ogdensburg, NY.
Soy coffee (dietary food).

CHILI

CRAV S.A.
Calle Cochrane 867-2 Piso, Valparaiso, Ph. 3081; TLX: 30480 (CRAV CL).
FORTESAN soy beverage.

JAPAN

HOHNEN OIL CO. LTD.
Mitsui Life Insurance Building, 1-2-3 Ohtemachi, Chiyoda-ku, Tokyo, Ph. 211-6511.
Soy milk.

KOREA

DR. CHUNG'S FOOD COMPANY
194-24 Hwoi Hyun-dong 1-ka, Chung-ku, Seoul, Ph. 23-2151-4; Other location: 296-5 Hagal-ri, Kiheung-myon, Yong In-kun, Kyungki-do.
VEGIMIL soy milk.

DONG BANG OIL
AND FLOUR MILLS CO., LTD.
No. 2 Yangpyung-dong 4-ka, Yungdungpo-ku, Seoul, Ph. 633-3921; TLX: K27334 (DBSOY); Plant at: Jin Hae, Kyung Nam, Ph. 2-2161-3.
GREEN MILK soy milk beverage and GREEN MIL soy milk ice cream ingredient.

MAYLAYSIA

CARNATION COMPANY (M) SDN. BERHAD
27, Jalan Telawi Tiga, Bungsar Baru, Kuala Lumpur.
Soy beverage.*

YEO HIAP SENG (Malaysia) BERHAD
7 Jalan Tandang, P.O. Box 229, Petaling Jaya, Selangor, Ph. 573733; TLX: 37544 (YHS MA).
Soy beverage.*

MEXICO

ALIMENTOS COLPAC
KM 13 Carratera Huatabampo, Apartado No. 502, Navojoa Sonora, Ph. 2-08-42.
Soy beverage.

INDUSTRIAL DE ALIMENTOS S.A.
146 Poniente 789, Col. Ind. Vallejo, Mexico 17, DF.
Soy beverage.

SINGAPORE

THE AMOY CANNING CORP. (Singapore) LTD.
13 KM Bukit Timah Rd., Ph. 663566.
Soy beverage.*

CARNATION COMPANY (Singapore) PTE LTD.
Sub. of Carnation International, Los Angeles, CA; Ph. 2200122; TLX: 23401 (CARNSIN RS).
Soy beverage.*

FOOD SPECIALITIES SINGAPORE (PTE) LTD.
Aff. of Nestle companies; Ph. 652911; TLX: 25767 (FOSPEC RS).
Soy beverage.*

FRASER & NEAVE (Singapore) PTE LTD.
Singapore 1024, Ph. 630222; TLX: 21687 (RS).
Soy beverage.*

YEO HIAP SENG LIMITED
950 Dunearn Rd., Singapore 21, Ph. 662266; TLX: 22143 (RS).
Soy beverage.*

TAIWAN

PRESIDENT ENTERPRISES CORP.
2-20 Yan Harng, Tainan Yungkang 711, Ph. 062-232171; Other location: Taipei.
Soy milk.*

THAILAND

GREEN SPOT (THAILAND) LTD.
79 Mu 4 Klongton-Hua Mark Rd., Bangkok, Ph. 3775088-91.
Soy beverage.*

RAMA FOOD PRODUCT CO., LTD.
Bangkok, Ph. 3923002; TLX: 82998 (HYATT TH).
Soy beverage.*

WIE-CHUAN FOODS CORP.
125 Sunchiang Rd., Taipei, Ph. 02-541-8221; Plant at: No. 518, Chung-Hsin Rd., Sec. 5, San-Chung City 241, Ph. 02-982-1119.
Soy milk.*

SOY FLOUR, PROTEIN CONCENTRATES & ISOLATES

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4666 Faries Pkwy., Decatur, IL 62526, Ph. 800-637-5850.
Nutrisoy edible soy flours and grits, ADM soybean brew flakes and soy protein concentrates.

CARGILL INC.
P.O. Box 2817, Cedar Rapids, IA 52406, Ph. 319-366-8381.
Soy flour, flakes and grits.

CENTRAL SOYA
Chemurgy Div., 1300 Fort Wayne National Bank Bldg., Fort Wayne, IN 46802, Ph. 219-425-5508; TLX: 232-410; INT'L. TLX: 0232-410.
Defatted, low-fat and lecithinated soy flours, flakes and grits. Promosoy and Response soy protein concentrates.

DAIRYLAND PRODUCTS INC.
5345 W. 125th St., Savage, MN 55378, Ph. 612-890-5305.
Soy flour, flakes and grits.

DAWSON FOOD INGREDIENTS, INC.
7901 Flying Cloud Dr., Suite 230, Eden Prairie, MN 55344, Ph. 612-944-6696; TLX: 290-473.
DAWSOY soy flour, flakes, grits and soy protein isolates.

FARMLAND AGRISERVICES, INC.
Manufactured Products Division, 960 N. Halstead, P.O. Box 1667, Hutchinson, KS 67501, Ph. 316-663-5711; TWX: 910-740-1528.
Soy flour, flakes and grits.

FARMLAND INDUSTRIES INC.
St. Joseph Div., P.O. Box 427, St. Joseph, MO 64502, Ph. 816-233-6161; TWX: 910-777-7189.
Defatted soy flour and grits, full toast, light toast and untoasted. Mesh flour, coarse-medium-fine grits. Bulk and bagged.

FEARN SOYA FOODS, DIV. RICHARD FOODS CORP.
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High and low solubility isolates (90%) from soy flakes.

GRIFFITH LABORATORIES
12200 S. Central Ave., Alsip, IL 60658, Ph. 312-371-0900.
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HONEYMEAD PRODUCTS CO.
Mankato, MN 56001, Ph. 507-625-7911.
Soy flakes; toasted, untoasted soy flour. Bulk and bagged.

LUCAS MEYER (America) INC.
Div. of Lucas Meyer Hamburg, 765 E. Pythian Ave., Decatur, IL 62526, Ph. 217-875-3660; TLX: 40-4387.
Fullfat soyflour, flakes and grits.

STERLING H. NELSON & SONS INC.
525 S. 500th W., P.O. Box 1296, Salt Lake City, UT 84110, Ph. 801-364-6523.
Soy flour for home and/or bakery use.

RALSTON PURINA CO.
Protein Div., Checkerboard Square, St. Louis, MO 63188, Ph. 800-325-7136.
Supro 350,610,620,630, 640T Fortiblend, 660,710; SPF200; EdiPro A; and Purina Protein 220 and 500E isolated soy proteins for varied use in food products.

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A.E. STALEY MFG. CO.
Protein Div., P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
Coarse, medium & fine grits. Toasted, medium toasted and untoasted flour and grits. 15-90 PDI soy flour and grits. PROCON 2000, 2060 and textured PROCON soy protein concentrates.

ARGENTINA

SANTO PIPO TUNGOIL
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Casilla Correo 6, Santo Pipo (MS) 8, Ph. 17.
Soy flour.

SANTO PIPO TUNGOIL
SOC. COOP. LTDA.
Florida 142, Piso 3-A, Buenos Aires, Ph. (Santo Pipo) 17.
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AUSTRALIA

BARTON ADDISON & SONS PTY. LTD.
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ADDISON soy flour, NU-SOY bread mix, NU-SOY concentrate.

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69 Power Rd., P.O. Box 66, Bayswater, Victoria, Ph. 72-91738.
SOYVITA full-fat soy flour.

BOLIVIA

FABRICA DE ACEITE
VILLAMONTES
RAFAEL DEHEZA
Ave. Camacho 1485 Edif. La Urbana, P.O. Box 1124, La Paz, Ph. 24957, 50877 or 5294; TLX: 5263 (CORFOMENTO).
Soy flour CBF.

INDUSTRIAS DE ACEITE S.A.
P.O. Box 1759, Ballivian 262, Santa Cruz, Ph. 47008.
Soy flour.

BRAZIL

ADM DO BRASIL TVP S.A.
CEP 13100, Cx. Postal 632, Campinas, SP, Ph. 2-09-89; TLX: 019-1221.
Soy flour.

INCOBRASA
INDUSTRIAL E COMERCIAL
BRASILEIRA S.A.
Edificio Formac, 24th Floor, Porto Alegre, Ph. 24-3372; TLX: 01-1777 (INBR BR).
INCOBRASA soy flour, soy grits.

CANADA

MACDOWELL BROS.
P.O. Box 141, Brockville, Ontario, Ph. 613-342-3606; Other location: Ogdensburg, NY.
Soy flour specially processed for diabetics, with gluten flour for bread and rolls and special gluten-free flours.

VICTORY SOYA MILLS LTD.
333 Lake Shore Blvd. E., Toronto, Ontario M5A 1C2, Ph. 416-363-8771; TLX: 06-219812 (VICTORY TOR).
SOYWHITE defatted flour.*

CHILE

ACEITERA TALCA S.A.
(ACEITAL)
Casilla 20D, Camino Longitudinal Sur, Talca, Ph. 32163, 31855.
ORO VEGETAL soybean flour.

CRAV S.A.
Calle Cochrane 867-2 Piso, Valparaiso, Ph. 3081; TLX: 30480 (CRAV CL).
Soy flour.

COLUMBIA

ACEITES Y GRASAS VEGETALES S.A.
(ACEGRASAS)
Carretera Del Sur 57-21, Bogata, Ph. 30-50-55.
Soy flour.

LLOREDA, GRASAS Y ACEITES
VEGETALES S.A.
Autopista Cali Yumbo Kilometro 3, Ph. 68211119; TLX: 055-711 (LLOGR CO).
PROTARINA soy flour.

ENGLAND

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Old Trafford, Manchester M16 ONJ, Ph. 061-872-7161; TLX: 668488.
HI-SOY, DO-SOY, ARKASOY soy flour. Protein products, food additives and vegetable protein.*

BRITISH SOYA PRODUCTS LTD.
Puckeridge, NR Ware, Hetfordshire, Ph. (Ware)821291; TLX: 81352.
TRUSOY, BREDSOY soy flours.*

SOYA FOODS LTD.
New Malden House 1, Blagdon Rd., New Malden Surrey KT3 4TB, Ph. 01-949-2141; TLX: 896660.
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FRANCE

S.I.O. DIRECTION PROTEINES
chez Societe des Produits Excel, 26-36, Rue des Peupliers, 92000 Nanterre, B.P. 307, 92003 Nanterre Cedex, Ph. (I) 785-69-01; TLX: 612-077 (SOLEAG).
S.I.O. soy flours.*

INDIA

MANGLIAGAON (M.P.)
GENERAL FOODS PRIVATE LTD.
150, Jaora Compound, Indore-452001, Ph. 6889 or 7467; TLX: 0735-203.
Soy flour.*

VED BRAT & CO.
39-C, Prem House, Connaught Pl., New Delhi-1, Ph. 352761 or 615100.
Soy protein isolates.*

VIPPY SOLVEX PRODUCTS PRIVATE LTD.
28 Industrial Area, A.B. Rd., Dewas 455-001 M.P., Ph. 581; TLX: 0732-201 (VSP IN).
VIPPY soy flour.*

ISRAEL

ETZ HAZAITH LTD.
P.O. Box 193, Petah-Tikva, Ph. 927171; TLX: 341859.
Soy flour.*

ITALY

INDUSTRIA PROTEINE VEGETALI S.p.A.
Corso Italia, 13, Milan 20122, Ph. 02-879-070; TLX: 25278 (FINDUINA).
PROTAL 93% (dietetic) and PROTIND 90% (food enrichment) soy protein isolates.

JAPAN

ASAHI YUSHI CO. LTD.
Higashi Asahikawa, Asahikawa City 070, Ph. 0166-36-1121.
Soy flour.

FPPM LIMITED
SKF Bldg., 9-1, 1-Chome, Shiba-Daimon, Minato-ku, Tokyo, Ph. 03-438-2021.
Soy flour.

FUJI OIL CO. LTD.
Nissei Midosuji Hachimancho Bldg., 6-1 Hachiman-cho Minami-ku, Osaka 542, Ph. 06-213-8151.
FUJIPRO-M/SP, IPSO-M/SP isolated soy protein, FUJIPRO-C, IPSO-C concentrated soy protein.

JAPAN PROTEIN INDUSTRY CO. LTD.
1920 Ogawahigashicho, Kodaira City, Tokyo, Ph. 0423-41-0831.
PROTON-M and HIPROTON whole fatted spray dried soy protein; PROTON-SA No. 1 defatted spray dried soy protein; PROTON-NA No. 1 isolated soy protein.

KYOWA HAKKO KOGYO CO. LTD.
1-6-1 Otemachi Chiyoda-ku, Tokyo, Ph. 03-201-7211.
Soy protein.

NIHON KOYU CO. LTD.
No. 32 Bungocho, Higashiku, Osaka, Ph. 943-0740.
NIKKO-MAME defatted soybean flakes for shoyu and miso; SAKAE-MAME soy flour for tofu; PROTFLOUR soy flour for food and milk replacer; NIKOPRON high protein for food.

NIKKO OIL MILLS CO., LTD.
Kanda-Ogawamachi 2-12 Chiyoda-ku, Tokyo, Ph. 03-233-3960; TLX:222-4940.
NIKKO-MAME defatted soybean meal for shoyu and miso; SAKAE-MAME soybean for tofu.*

THE NISSHIN OIL MILLS LTD.
23-1 Chome, Shinkawa Chuo-ku, Tokyo, Ph. 03-555-6885; Plants at Kobe and Yokohama.
SOYMEE soy protein.

SHOWA SANGYO CO. LTD.
2-1, 2-Chome, Uchikanda, Chiyoda-ku, Tokyo 101, Ph. 257-2020.
SHOWA soy flour; SANGYO-MAME soy flour for tofu.*

YOSHIHARA OIL MILL LTD.
3-6-32 Naka Noshima, Kita-ku, Osaka, Ph. 06-441-8851.
GOTOKU soy flour.*

KOREA

DONG BANG OIL
AND FLOUR MILLS CO. LTD.
No. 2 Yangpyung-dong 4-ka, Yungdungpo-ku, Seoul, Ph. 633-3921; TLX: K27334 (DBSOY).
DONG BANG soy flour.*

MEXICO

ACEITERA EL SALTO S.A.
KM. 1.5 Carretera San Martin de las Flores, El Castillo el Salto, Guadelajara, Jalisco, Ph. 35-95-16; TLX: 068-2675.
Soy flour.

ACEITES INDUSTRIALES EL ZAPOTE S.A.
Ave. Presidente Juarez No. 201, Tlaneplantlta, Estado de Mexico, Ph. 397-53-11.
Soy flour.

ACEITES POLIMERIZADOS S.A.
Inguaran No. 5719, Mexico 14, D.F., Ph. 577-39-23.
Soy flour.

ACEITES Y PROTEINAS S.A.
Apartado Posta 2003, KM. 6, 4 Camino a Novalto, Culiacan, Sinaloa, Ph. 3-09-00; TLX: 066-5713 (APSAME).
Soy flour.

ALIMENTOS COLPAC
KM. 13 Carratera Huatabampo, Apartado 502, Navojoa, Sonora.
Soy flour.

INDUSTRIAL DE ALIMENTOS S.A.
146 Poniente 789, Col. Ind. Vallejo, Mexico 17, D.F.
Fully fatted and defatted soy flour.

INDUSTRIAL JABONERA LA ESPERANZA S.A.
Fte. a la Estacion de los FFCC, Gomez Palacio, Durango, Ph. 4-1044; TLX: 032-877.
Soy flour.

LOS MOLINOS S.A.
Apartado Postal 574, Zona Industrial No. 2, Ciudad Obregon, Sonora, Ph. 3-46-90; TLX: 055-839.
Soy flour.

OLEAGINOSAS DE OCCIDENTE S.A.
Sabina No. 2052, Colonia del Fresno, Guadalajara, Jalisco, Ph. 1203-48 or 1212-41.
Soy flour.

TRON HERMANOS Y CIA. SUCRS. S.A.
Hs. de Nocupetaro No. 825, Morella, Michoacan, Ph. 20222.
Soy flour.

NETHERLANDS

UNIMILLS B.V.
Lindtsedijk 8, 3336 LE Zwijndrecht, Ph. 078-125144; TLX: 29031 (UMIL NL).
Soy protein concentrates.*

PORTUGAL

TAGOL, COMPANHIA DE OLEAGINOSAS DO TEJO SARL
Ave. Republica 44, 4 Esp. Lisboa 1, Ph. 767521; TLX: 14187 (TAGOL P).
TAGOL soy flour.

SPAIN

ACEITES Y PROTEINAS S.A. (ACEPROSA)
Repelega, Portugalete (Vizcaya), Ph. 94-425-45-00; TLX: 32753.
EMULSOY 200 mesh soy flour.*

ARLESA-EXTRASUR
Carretera del Copero, S/N, Punta del Verde, Sevilla, Ph. 69-04-58; TLX: 27784.
Soy flour.*

SOUTH AFRICA

S.A. OIL MILLS (PTY) LIMITED
Main Reef Rd., Posbus 208, Randfontein Transvaal 1760, Ph. 011-663-4331; TLX: 8-7825.
Soy flour.*

TIGER PROTEIN INDUSTRIES (PTY) LTD.
P.O. Box 575, Randfontein 1760, Ph. 011-693-4231; TLX: 8-3319SA.
Soy flour.*

TIAWAN

HSIAOKANG SUGAR MILLS, TSC
25 Paoching Rd., Taipei, Ph. 02-311-0521; Plant at: 133 Hsiaokang Rd., Kaohsiung 800, Ph. 07-821-4160.
Soy flour.*

TURKEY

ORDU SOYA SANAYIIMUESSESESI
Aff. of Sumerbank, Ordu, Ph. 1420, 1363.
Soy flour.

VENEZUELA

EXTRACTORA NACIONAL DE OLEAGINOSAS S.A. (ENDOSA)
Protinal CA, P.O. Box 83, Valencia, Ph. 52081.
SOYARINA soy flour.

PROMASA S.A.
Encrucijada Chivacoa, Productos de Maiz, S.A., Ph. 76-77; Plant at: Estado Yaracuy.
Soy flour.

WEST GERMANY

EDELSOYA GmbH
Ausschlager Elbdeich 21, 2000 Hamburg 28, Ph. 78-17-01.
Fullfat soy flour, grits and flakes.*

OELMUHLE HAMBURG AG
KohlbrandstraBe 1, P.O. Box 930 320, D-2102 Hamburg 93, Ph. 75-19-41; TLX: 163537.
Protein meals and flours.*

OELWEREKE NOURY & VAN DER LANDE
Zweigniederlassung der Akzo Chemie GmbH, Industrie Strasse, Emmerich/Rhein, Ph. 02822-74-1.
VANDERLANDE soy flour.

SOY FLOUR MIXES

UNITED STATES

FEARN SOYA FOODS DIV. OF RICHARD FOODS CORP.
4520 James Pl., Melrose Park, IL 60160, Ph. 312-345-2335.

HONEYMEAD PRODUCTS CO.

MANKATO:

GOLDEN-GLO
HIGH ENERGY
and
44% SOYBEAN MEAL

BULK OR SACKED
100 lbs. burlap — 50 lbs. paper

Defatted Soy Flour
Flakes
Edible – Industrial
Bulk – Sacks

MINNEAPOLIS:

34% LINSEED MEAL
30% SUNFLOWER MEAL

TRUCK OR RAIL DELIVERY

Honeymead
PRODUCTS COMPANY

P. O. Box 29
Mankato, MN
Phone: 507-625-7911

Fearn's Soy-O mixes including: unbleached, whole wheat pancake mixes; corn, bran muffin mixes; wheat-free rice baking mix and low sodium pancake mix. Carob, carrot, banana and spice cake mixes.

SPECIAL FOODS CO.
503 Bush St., Red Wing, MN 55066, Ph. 612-388-5564; St. Paul Ph. 612-225-3153.
V-10 Protein Bread Mix, V-10 Protein Pancake and Waffle Mix, V-10 Protein Meat Mix, Sturdiwheat and Natural Grain Bread Concentrates and Protein Blend for baking.

SOY OIL PRODUCTS Margarine, Shortening; Cooking, Salad & Soy Oils

UNITED STATES

ALL-FRESH FOODS INC.
2156 Green Bay Rd., Evanston, IL 60201, Ph. 312-869-3100.
Margarine, shortening, cooking and salad oils.

ANDERSON, CLAYTON FOODS
P.O. Box 226165, Dallas, TX 75266.
Margarine, shortening, cooking and salad oils.

ARCHER DANIELS MIDLAND CO.
4666 Faries Pkwy., Decatur, IL 62526, Ph. 800-637-5866.
Archer cooking and salad oil, hydrogenated oils in bulk and packaged oils.

BEATRICE FOODS CO.
2 N. LaSalle St., Chicago, IL 60602; Plants at: Sunnyvale, CA; Elgin, IL; Detroit, MI; Omaha, NE; Greenville, SC; Dallas, TX.
Margarine.

BEST FOODS DIV.
CPC INTERNATIONAL INC.
International Plaza, Englewood Cliffs, NJ 07632, Ph. 201-894-4000; Plants at: San Francisco and Santa Fe Springs, CA; Chicago, IL; Bayonne, NJ.
Margarine, shortening, cooking, salad and soy oil.

BROOKSIDE DIV. SAFEWAY STORES INC.
Oakland, CA 94660, Ph. 415-944-4527; Plants at: Richmond, CA; Denison, TX; and Grandview, WA.
Margarine, cooking and salad oil.

CAPITAL CITY PRODUCTS CO.
Div. Stokely Van Camp Inc., 525 W. 1st Ave., P.O. Box 569, Columbus, OH 43216, Ph. 614-299-3131; TLX: 245-494.
Margarine, shortening, cooking, salad and soy oil.

CARGILL INC.
P.O. Box 9300, Minneapolis, MN 55440, Ph. 612-475-7575.
Soy oil.

CENTRAL SOYA
Refined Oil Div., Fort Wayne, IN 46802, Ph. 219-425-5373; TLX: 232-410; INT'L. TLX: 0232-410; Other locations: Decatur, IN; Chattanooga, TN.
Margarine, shortening, cooking and salad oil. Refiners of soybean, corn and palm oil.

JOHN SEXTON & CO.
Beatrice Foods Co., 222 S. Riverside Plaza, Chicago, IL 60606, Ph. 312-648-1100; Plant at: 1800 Churchman Ave., Indianapolis, IN 46202, Ph. 317-786-1415; TLX: 25-5230.
Shortening, salad dressings and other soybean based products.

SHEDD'S FOOD PRODUCTS
14401 Dexter Blvd., Detroit, MI 48238, Ph. 319-869-6313; TLX: 23-0731; Plants at: Sunnyvale, CA; Elgin, IL; Louisville, KY; Omaha, NE; Greenville, SC and Dallas, TX.
Margarine, Shedd's old-style dressing and salad product.

C.F. SIMONIN'S SONS INC.
Belgrade and Tioga Sts., Philadelphia, PA 19134, Ph. 215-426-2300.
Cooking and salad oils.

A.E. STALEY MFG. CO.
P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4415.
Cooking, salad oils, and hydrogenated oils, bulk.

AUSTRALIA

NUTTELEX FOOD PRODUCTS PTY. LTD.
594-600 Church St., Richmond, Victoria 3121, Ph. 428-3585; TLX: 30333 (EDZORN AA).
Margarine.*

SOUTHERN PACKERS PTY LTD.
300 Ingles St., P.O. Box 76, Port Melbourne 3207, Ph. 644338; TLX: AA 33730.
Shortening, cooking and salad oil.

AUSTRIA

KUNER
Rosengrasse 4, A 1011 Wien, Ph. 0222-6619-0; TLX: 07-4080.
Margarine, edible grade soy oil.*

BOLIVIA

FABRICA DE ACEITE
VILLAMONTES RAFAEL DEHEZA
Ave. Camacho 1485 Edif. la Urbana, P.O. Box 1124, La Paz, Ph. 24957, 50877 or 52594 ; TLX: 5263 (CORFOMENTO).
EL REY soy oil.

BRAZIL

INCOBRASA
INDUSTRIAL E COMERCIAL
BRASILEIRA S.A.
Edificio Formac, 24th Floor, Porto Alegre, Ph. 24-3372; TLX: 051-1777 (INBR BR).
SANTA ROSA soy oil.

OLVEBRA SA-INDUSTRIA
E COMERCIO DE OLEOS VEGETAIS
Praca Osvaldo Cruz N° 15-16° Andar, Porto Alegre, RGS, Ph. 21-2200; TLX: 051-1225 (OLVE BR).
VIOLETA soy oil.

S.A. MOINHOS RIO GRANDENSES (SAMRIG)
Rua da Conceicao, 195, Porto Alegre, RGS, Ph. 24-1033; TLX: 028778 (SAMRIG PAE).
PRIMOR soy oil and margarine.

CANADA

CANADA PACKERS INC.
95 St. Clair Ave. W., Toronto, Ontario M4V 1P2, Ph. 416-766-4311; TLX: 062-2257.
Margarine, shortenting, cooking and salad oil.*

MONARCH FINE FOODS CO. LTD.
6700 Finch Ave. W., Rexdale, Ontario M9W 1G9, Ph. 416-675-1678; TLX: 06-989485.
Margarine, shortening, cooking and salad oil.*

VICTORY SOYA MILLS LTD.
333 Lake Shore Blvd. E., Toronto, Ontario M5A 1C2, Ph. 416-363-8771; TLX: 06-219812 (VICTORY TOR).
Degummed soybean oil and alkali refined/bleached soybean oil.*

COLOMBIA

GRASAS S.A.
Calle 11 No. 18-113, Buga-Valle, Ph. 2021; TLX: 05866.
OLIOSOYA edible oil and LA GARZA shortening.

LLOREDA, GRASAS Y
ACEITES VEGETALES S.A.
Autopista Cali Yumbo Kiometro 3, Ph. 68211119; TLX: 055-711 (LLOGR CO).
NATURA margarine, MANTECALI shortening and OLEOCALI cooking and salad oils.

DOMINICAN REPUBLIC

SOCIEDAD INDUSTRIAL DOMINICA
C. por A., Ave. Maximo Gomez, Apartado No. 726, Santo Domingo, Ph. 809-565-1323.
Soy oil.

ENGLAND

DUNDALE BULK PRODUCE LTD.
67 High St., Tring, Hertfordshire HP23 5EF, Ph. (Tring) 044-282-5445; TLX: 825812.
Soy oil.

FINLAND

OY KASVIOLJY
21200 Raisio, Ph. 921-780-311; TLX: 62140 (RAUL SF).
Soy oil.*

INDIA

MANGLIAGAON (M.P.)
GENERAL FOODS PRIVATE LTD.
150, Jaora Compound, Indore 452001, Ph. 6889 or 7467; TLX: 0735-203.
Refined soy oil.*

ISRAEL

ETZ HAZAITH LTD.
P.O. Box 193, Petah-Tikua, Ph. 927171; TLX: 341859.
Margarine and shortening.*

ITALY

GIACOMO COSTA FU ANDREA S.p.A.
Via Gabriele D'Annunzio 2, Genova, Ph. 010-54831; TLX: 270068 (COSTA I).
Soy oil.*

PATRICK CUDAHY INC.
Cudahy, WI 53110, Ph. 414-744-2000; TLX: 269455.
Shortening and lard.

DURKEE FOODS DIV. SCM CORP.
900 Union Commerce Bldg., Cleveland, OH 44115, Ph. 216-344-8000; Other locations: Chicago and Joliet IL; Louisville, KY.
Soy oil.

J.H. FILBERT INC.
3701 Southwestern Blvd., Baltimore, MD 21229, Ph. 301-644-4900; Plant at: 1591 Murphy Ave. SW, Atlanta, GA 30310.
Margarine, mayonnaise, retail food service and food processor.

FOOD SERVICE DIV.
THE MIAMI MARGARINE CO.
5226 Vine St., Cincinnati, OH 45217, Ph. 513-242-2310.
Margarine and salad oil.

HARTSVILLE OIL MILL
5th St., Hartsville, SC 29550.
Margarine, shortening, cooking, refined salad oils, bulk.

HOLSUM FOODS
P.O. Box 32, Industrial Airport, KS 66031, Ph. 913-782-7171; Other location: 919 14th St., Albert Lea, MN 56007, Ph. 507-373-2431.
Margarine, shortening, cooking and salad oil.

HONEYMEAD PRODUCTS CO.
Mankato, MN 56001, Ph. 507-625-7911.
Margarine, soy and hydrogenated oil. Savory-soy salad oil.

HUMKO PRODUCTS, KRAFT, INC.
Whitestation Towers, P.O. Box 398, Memphis, TN 38101, Ph. 901-766-2100; Plants at: Buena Park, CA, Ph. 714-523-0370; Champaign, IL, Ph. 217-356-7213.
Margarine, shortening and salad oil.

HUNT-WESSON FOODS INC.
1645 W. Valencia Dr., Fullerton, CA 92634; Plants at: Savannah, GA; Chicago, IL; Bayonne, NJ; Memphis, TN.
Shortening, cooking and salad oil.

KRAFT INC.
Kraft Ct., Glenview, IL 60025, Ph. 312-998-2000.
Shortening , salad oil and salad dressing.

LEVER BROTHERS CO.
390 Park Ave., New York, NY 10022; Plants at: Los Angeles, CA; Hammond, IN.
Margarine and shortening.

PVO INTERNATIONAL INC.
St. Louis, MO 63147, Ph. 314-622-0200.
Margarine, shortening, cooking, salad and soy oil.

PFEIFFER'S FOODS INC.
683 Lake St., Wilson, NY 14172.
Pourable salad dressings and mayonnaise.

PROCTOR & GAMBLE DISTRIBUTING CO.
P.O. Box 599, Cincinnati, OH 45201.
Shortening and edible oil.

RICELAND FOODS
2120 S. Park Ave., P.O. Box 926, Stuttgart, AR 72160, Ph. 501-673-5500; Other location: Helena, AR.
Margarine, shortening, cooking, salad and soy oils.

S.E. RYKOFF & CO.
737 Terminal St. (Mfg.) & 761 Terminal St. (Dist.), Los Angeles, CA 90021, Ph. 213-622-4131.
Mayonnaise, shortening and salad dressings. Labels; SER, SERCO, GOLDEN REY, SILVER REY, MAXIM and CONNOISSEUR.

JAPAN

AJINOMOTO CO. INC.
5-8, 1-Chome, Kyobashi, Chuoku, Tokyo, Ph. 272-1111.
Margarine, tempura oil and salad oil.

ASAHI YUSHI CO. LTD.
Higashi Asahikawa, Asahikawa City 070, Ph. 0166-36-1121.
Soy oil.

HOHNEN OIL CO. LTD.
Mitsui Life Insurance Bldg., 1-2-3 Ohtemachi, Chiyoda-ku, Tokyo, Ph. 211-6511.
HOHNEN salad and tempura oil.

NIHON KOYU CO. LTD.
No. 32 Bungo-Cho, Higashiku, Osaka, Ph. 943-0740.
NIKKO soy oil.

NIKKA FATS & OILS CO. LTD.
5-16, 1-Chome, Edobori, Nishi-ku, Osaka, Ph. 06-441-7431.
NIKKA salad and tempura oils.*

NIKKO OIL MILLS CO. LTD.
Kanda-Ogawamachi 2-12 Chiyoda-ku, Tokyo, Ph. 03-233-3960; TLX: 222-4940.
Soy oil.*

THE NISSHIN OIL MILLS, LTD.
23-1, 1-Chome, Shinkawa, Chuo-ku, Tokyo, Ph. 555-6923.
NISSHIN salad oil and dressing.

RINORU OIL MILLS CO. LTD.
Aminosan Kaikan Bldg., No. 8, 15, 3-Chome Nihombashi, Chuo-ku, Tokyo, Ph. 273-5651.
Soy oil, RINORU salad oil.

SHOWA SANGYO CO. LTD.
2-1, 2-Chome, Uchikanda, Chiyoda-ku, Tokyo 101, Ph. 257-2020.
SHOWA soy and salad oil.*

MOROCCO

LES HUILERIES DE MEKNES
Quartier Sidi Said B.P. 2021 Meknes, Ph. 05-314-82; TLX: 41034 (HUILMEK).
Table oils.*

SOCIETE D'EXPLOITATION DES PRODUITS OLEAGINEUX (SEPO)
2, Rue du Caporal Corbi a Casablanca (R.N.), B.P. 3094, Ph. 24-10-96; TLX: 25-076.
Soy oil.*

PERU

COMPANIA OLEAGINOSA DEL PERU S.A.
Cassilla 2965, Lima 1, Ph. 52-5570.
Magarine, shortening and salad oil.

SPAIN

ACEITES Y PROTEINAS S.A. (ACEPROSA)
Repelega, Portugalete (Vizcaya), Ph. 94-425-45-00; TLX: 32753.
Soy oil.*

ARLESA, ACEITERIAS REUNIDAS DE LEVANTE S.A.
Avda. Generalisimo, 61-8a P., Madrid 16, Ph. 279-63-00; Plant at: Valencia 11.
Soy oil.

ARLESA-EXISA
Carretera del Copero, S/N, Punta Del Verde, Sevilla, Ph. 61-02-00; TLX: 27784.
Soy oil.*

COMPANIA INDUSTRIAL Y DE ABASTECIMIENTOS, S.A.
Avda. de los Madronos No. 31, Madrid 33, TLX: 44373 (CIND E) or 22080 (DINSO E).
Soy oil.*

TAIWAN

ALL SINCERE INDUSTRIAL CO. LTD. (ASIC)
38 Chung Shan Rd., Kaohsiung (Luchu) 821, Ph. 064-862201.
Salad oil.*

CHIA FHA INDUSTRY CO. LTD.
29 Tattung (Shalu), Taichung (Shalu), Ph. 046-223221.
Soy and salad oil.*

CHIA HSIN FLOUR, FEED & VEG. OIL CORP.
1-Teh Li, Peitou, Taipei, Ph. 02-8912253.
CHIA HSIN salad oil and soy oil.*

CHUAN YUAN OIL MILL CO. LTD.
117 Hweilai St., Chang Hwa (Yuanlin) 510, Ph. 048-323464.
Mayonnaise, refined soy oil and CHUAN YUAN salad oil.*

EAGLE INDUSTRY CORP.
12th Floor 310 Sec. 4, Chung Hsiao E. Rd., Taipei, Ph. 02-7811161-70.
EAGLE soy and salad oil.*

GREAT WALL ENTERPRISES CO. LTD.
8th Floor, 310 Sec. 4, Chung Hsiao E. Rd., Taipei, Ph. 02-7716677.
Soy oil and salad oil.*

HSIAOKANG SUGAR MILLS, TSC
25 Paoching Rd., Taipei, Ph. 02-3110521; Plant at: Kaohsiung.
TAITANG salad oil.*

HUIE SHENG OIL MILL CO. LTD.
102 Wenshan, Wenshan Li, Miaoli, Ph. 037-320826; Plant at: Kaohsiung (Luchu).
SHENG-LI soy and salad oil.*

PRESIDENT ENTERPRISES CORP.
2-20 Yan Harng, Tainan Yungkang, Ph. 062-232171.
Margarine, shortening.*

TAI HWA OIL INDUSTRIAL CO. LTD.
37 Lane 67, Linsheng N. Rd., Taipei, Ph. 02-5110121.
GOLD soy and salad oil.*

TAY SHAN ENTERPRISE CO. LTD.
Fuchiung Rd., Chang Hwa (Yuanlin) 510, PH. 048-322122; Other location: Taipei.
TAY SHAN soy and salad oils.*

TURKEY

ORDU SOYA SANAYIIMUESSESESI
Aff. of Sumerbank, Ordu, Ph. 1420 or 1363.
SUMERBANK soy oil.

WEST GERMANY

FRITZ HOMANN LEBENSMITTELWERKE GmbH & CO. KG
Postfach 1180, 4503 Dissen, Ph. 05421-311; TLX: 94311.
Margarine, shortening, cooking, salad and soy oil.*

SOY SAUCE

UNITED STATES

GREAT CHINA FOOD PRODUCTS CO.
2520-58 S. State St., Chicago, IL 60616, Ph. 312-225-8600.
Soy sauce.

KIKKOMAN INTERNATIONAL INC.
Sub. of Kikkoman Corporation, 50 California St., Suite 3600, San Francisco, CA 94111, Ph. 415-956-7750.
Soy sauce, teriyake sauce and meat marinades.

MANDARIN SOY SAUCE INC.
419 North St., Middletown, NY 10940, Ph. 914-343-1505.
Wanjashan soy sauce.

A.E. STALEY MFG. CO.
Protein Div., P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
Soybean and corn hydrolyzates and flavoring.

KOREA

SAMPYO FOODS CO. LTD.
647-2 Chang-Dong, Dobong-Ku, Seoul, Ph. 992-7111-7.
Soy sauce.*

MEXICO

GLUCOSA S.A.
Naranja 159, Naucalpan, Ph. 576-23-33.
Soy sauce.

SINGAPORE

THE AMOY CANNING CORP. (SINGAPORE) LTD.
13 KM Bukit Timah Rd., Singapore, Ph. 663566.
Soy sauce.*

YEO HIAP SENG LTD.
950 Dunearn Rd., Singapore 21, Ph. 662266; TLX: RS 22143.
Soy sauce.*

TAIWAN

PRESIDENT ENTERPRISES CORP.
2-20 Yan Harng, Tainan Yungkang 711, Ph. 062-232-1717.
Soy sauce.*

WAN-JIA-SHIANG BREWERY CO. LTD.
80-1, Hope St., Sanchung Taipei 241, Ph. 02-981-13183.
MANDARIN soy sauce.*

WEI-CHUAN FOODS CORP.
125 Sunchiang Rd., Taipei, Ph. 02-541-8221; Plant at: No. 518, Chung-Hsin Rd., Sec. 5, San-Chung City 241, Ph. 02-982-1119.
Soy sauce.*

SOYBEANS, CANNED

UNITED STATES

LOMA LINDA FOODS
P.O. Box 388, Mt. Vernon, OH 43050; Main

office: Riverside, CA, Ph. 714-785-2444.
BOSTON-STYLE Soybeans and GREEN Soybeans.

MEXICO

ALIMENTOS COL-PAC
KM 13 Carratera Huatabampo, Apartado No. 502, Navojoa Sonora, Ph. 2-08-42.
Canned whole soybeans.

SOYBEANS FOR COOKING AND SPROUTING

UNITED STATES

FEARN SOYA FOODS,
DIV. OF RICHARD FOODS CORP.
4520 James Pl., Melrose Park, IL 60160, Ph. 312-345-2335.
Fearn's organically grown soybeans.

EL MOLINO MILLS
Div. of ACG Co., 345 N. Baldwin Park Blvd., City of Industry, CA 91746, Ph. 213-962-7167; TLX: 674613.
Cook's Best vegetable-edible variety soybeans.

STRAYER SEED FARMS INC.
Hudson, IA 50643, Ph. 319-988-3640.
Prize, Vinton, Marion, Beeson, Kim and Jade varieties for cooking, baking and foods manufacturing. Corsoy and Amsoy for sprouting. Mechanical splitting available.

SOYBEANS, ROASTED

UNITED STATES

EDIBLE SOY PRODUCTS, INC.
7th and Hwy. 63, Hudson, IA 50643, Ph. 319-988-3221.
Dehulled toasted soybeans, soybean halves, dry roasted, diced and toasted soybeans - 88% polyunsaturated fat and 10 essential amino acids, no solvents used.

INARI, LTD.
2331 Forest Rd., Lansing, MI 48910, Ph. 517-882-3323; TLX: 229440 (MICH AGRI LSG).
Whole roasted soynuts from identity preserved soybeans. Salted, unsalted, flavored to customer specification. I.P. soybeans for human consumption. Soy flour and grits.

MALT-O-MEAL
1700 Cargill Bldg., Minneapolis, MN 55402, Ph. 612-338-8551; Plant at: P.O. Box 6, Northfield, MN 55057.
Soy Town roasted soybeans and Soy Ahoy.

PIONEER SPECIALTY FOODS
P.O. Box 1568, Fargo, ND 58102, Ph. 701-282-2397.
Roasted and salted snack soybeans, soy flour and soybeans for human consumption.

HOLLAND

SOLNUTS B.V.
Swaardvenstraat 41, P.O. Box 5066, 5004 EB Tilburg, Ph. 013-68-4991; TLX: 52654 (SOLNU NL).
Roasted soybeans.*

TOFU MANUFACTURERS & SOY DAIRIES

UNTIED STATES

AZUMAYA INC.
1575 Burke Ave., San Francisco, CA 94124, Ph. 415-285-8500.

MATSUDA-HINODE TOFU CO.
526 Stanford Ave., Los Angeles, CA 90013, Ph. 213-624-3615.

NEW ENGLAND SOY DAIRY
305 Wells St., Greenfield, MA 01301, Ph. 413-772-0746.

QUONG HOP & CO.
161 Beacon St., South San Francisco, CA 94080, Ph. 415-873-4444.
Tofu mfg. including: wine fermented tofu; nigari tofu and soymilk; tofu burgers, dressing, and salad; Ice Delight (frozen non-dairy dessert); Savory baked tofu; tofu cutlets, tofu frozen continental entrees (French & Italian).

SOYCRAFTERS ASSOCIATION
OF NORTH AMERICA
Sunrise Farm, Heath Rd., Colrain, MA 01340, Ph. 413-624-5591.
The trade association of soy dairies and tofu, tempeh and miso shop in North America.

THE SOYFOODS CENTER
P.O. Box 234, Lafayette, CA 94549, Ph. 415-283-2991.
Source of publications and information on tofu, soymilk, miso, tempeh and other low-technology soyfoods.

WHIPPING AGENTS

UNITED STATES

A.E. STALEY MFG. CO.
Protein Div., Gunther Products, P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411; Plant at: Galesburg, IL, Ph. 309-342-0119.
Gunther whipping and foaming agents for food and industrial use.

industrial product manufacturers

COATED FABRICS & PAPERS

UNITED STATES

COLUMBUS COATED FABRICS CO.
Div. Borden Chemical, Borden, Inc., 7th & Grant Ave., Columbus, OH 43216, Ph. 614-225-6060.
Plastic sheeting, calendered wall coverings, coated fabrics and upholstery materials.

RALSTON PURINA CO.
Polymer Div., Checkerboard Square, St. Louis, MO 63188, Ph. 800-325-7137.
Pro-Cote proteins for board, wallpaper and paper coatings, on and off machine at all solids level, sizing, calender and size press, paints pigment dispersants, printing inks, joint cements and water putties, general coatings and adhesives.

GLUES, LAMINATES, PLYWOOD ADHESIVES

UNITED STATES

ARCHER DANIELS MIDLAND CO.
4666 Faries Pkwy., Decatur, IL 62526, Ph. 800-637-5850.
Kaysoy industrial soy flours, soybean proteins for paper and paperboard laminating.

HONEYMEAD PRODUCTS CO.
Mankato, MN 56001, Ph. 507-625-7911.
Glues, plywood adhesives.

PACIFIC RESINS & CHEMICALS INC.
1754 Thorne Rd., Tacoma, WA 98421, Ph. 206-572-8181.
Adhesives for plywood, woodworking and allied industries.

RALSTON PURINA CO.
Soybean Div., Checkerboard Square, St. Louis, MO 63188, Ph. 800-325-7137.
Pro-Cotes and Purina Polymers for use in water resistant laminating, corrugating and tube winding adhesives. Sizes and tile coatings, texture paints and topping cements and general water resistant adhesive applications.

A.E. STALEY MFG. CO.
Protein Div., P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
Soy products for use in manufacturing of plywood adhesives.

JAPAN

HOHNEN OIL CO. LTD.
Mitsui Life Insurance Bldg., 1-2-3 Ohtemachi, Chiyoda-ku, Tokyo, Ph. 211-6511.
Synthetic resin adhesives and decorative plastic laminates.

SHOWA SANGYO CO. LTD.
2-1, 2-Chome, Uchikanda, Chiyoda-ku, Tokyo 101, Ph. 257-2020.
SHOWA soybean glue.*

INDUSTRIAL LECITHIN

UNITED STATES

CENTRAL SOYA
Chemurgy Div., 1300 Ft. Wayne National Bank Bldg., Fort Wayne, IN 46802, Ph. 219-425-5181; TLX: 232-410; INT'L. TLX: 0232-410.
Soy lecithins, a complete line of natural, modified grades for industrial, food and pharmaceutical fields.

HONEYMEAD PRODUCTS CO.
Mankato, MN 56001, Ph. 507-625-7911.
Industrial lecithin.

LUCAS MEYER (America) INC.
Div. Lucas Meyer Hamburg, 765 E. Pythian St., Decatur, IL 62526, Ph. 217-875-3660; TLX: 40-4387.
Soy lecithin in modified and deoiled grades for industrial applications.

RALSTON PURINA CO.
Soybean Div., Checkerboard Square, St. Louis, MO 63188, Ph. 800-325-7136.
Pur-A-Lec lecithins; standard plastic and fluid grades, unbleached, as emulsifiers and dispersants.

RICELAND FOODS
2120 S. Park Ave., P.O. Box 926, Stuttgart, AR 72160, Ph. 501-673-5500; Other location: Helena, AR.
Industrial lecithin.

ROSS & ROWE
Div. of Archer Daniels Midland Co., P.O. Box 1409, Decatur, IL 62525; Other location: Elizabeth, NJ.
Mfg. of R&R 551 Interface Modifier for latex, PVA and acrylic emulsion paints, manufacturer of the complete line of Yelkin lecithin products for oil base paints.

SPENCER KELLOGG DIV.
TEXTRON INC.
Buffalo, NY 14240, Ph. 716-852-5850.
Manufacturer of Kelecin F for solvent systems and Kelecin 1081 water dispersible lecithin.

A.E. STALEY MFG. CO.
Protein Div., P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
STA-SOL soy lecithin, bleached and unbleached fluid grades, water dispersible grades available.

CANADA

CANADA PACKERS INC.
CHEMICAL DIV.
5100 Timberlea Blvd., Mississauga, Ontario L4W 2S5, Ph. 416-624-7000.
Industrial lecithin.*

NETHERLANDS

UNIMILLS B.V.
Lindtsedijk 8, 3336 LE Zwijndrecht, Ph. 078-125144; TLX: 29031 (UMIL NL).
Industrial lecithin.*

TURKEY

ORDU SOYA SANAYIIMUESSESESI
Aff. of Sumerbank, Ordu, Ph. 1420 or 1363.
Raw lecithin.

WEST GERMANY

LUCAS MEYER
Ausschlaeger Elbdeich 62, Hamburg 28, Ph. 781-701.
Lecithin products for technical applications. Fluid, deoiled and fractionated grades.*

NATTERMANN CHEMIE GmbH
Nattermannallee 1, D-5000 Koln 30, Ph. 509-1; TLX: 8881928.
Lecithin products for the industrial field. Natural, modified, fractionated and oil-free lecithin.*

INDUSTRIAL SOY FLOUR

UNITED STATES

CARGILL INC.
P.O. Box 9300, Minneapolis, MN 55440, Ph. 612-475-6090.
Industrial soy flour.

CENTRAL SOYA
Chemurgy Div., 1300 Fort Wayne National Bank Bldg., Fort Wayne, IN 46802, Ph. 219-425-5508; TLX: 232-410; INT'L. TLX: 0232-410.
Defatted soy flour, Prosoy L.

HONEYMEAD PRODUCTS CO.
Mankato, MN 56001, Ph. 507-625-7911.
Manufacturer of Lamisoy industrial soy flour.

A.E. STALEY MFG. CO.
Protein Div., P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
Staley's extracted soy flours with 15-90-PDI range.

INDUSTRIAL SOY OIL

UNITED STATES

CARGILL INC.
P.O. Box 9300, Minneapolis, MN 55440, Ph. 612-475-6625.
Industrial soy oil.

CENTRAL SOYA
Refined Oil Div., 1300 Fort Wayne National Bank Bldg., Fort Wayne, IN 46802, Ph. 219-425-5373; TLX: 232-410; INT'L. TLX: 0232-410; Plants at: Decatur, IN; Bellevue, OH; Chattanooga, TN.
Industrial refined soy oil.

HONEYMEAD PRODUCTS CO.
Mankato, MN 56001, Ph. 507-625-7911.
Industrial refined soy oil.

RICELAND FOODS
2120 S. Park Ave., P.O. Box 926, Stuttgart, AR 72160, Ph. 501-673-5500; Other location: Helena, AR.
Industrial soy oil.

A.E. STALEY MFG. CO.
P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
For use in alkyd resin formulation. Alkali refined soy oils, bleached and unbleached.

CANADA

VICTORY SOYA MILLS LTD.
333 Lake Shore Blvd. E., Toronto, Ontario M5A 1C2, Ph. 416-363-8771.
Industrial soy oil.*

PAINTS & VARNISHES

UNITED STATES

DE SOTO INC.
Chemical Coatings Div., 701 Shiloh Rd., P.O. Box 401268, Garland, TX 75040, Ph. 214-276-5181.
Consumer and industrial enamel finishes.

E.I. DU PONT DE NEMOURS & CO. INC.
Wilmington, DE 19898, Ph. 302-774-2421.
Alkyd resin varnishes.

GLIDDEN COATINGS AND RESINS DIV. SCM CORP.
900 Union Commerce Bldg., Cleveland, OH 44115, Ph. 216-344-8000.
Paints, varnishes and lacquers.

PPG INDUSTRIES INC.
One Gateway Center, Pittsburgh, PA 15222, Ph. 412-434-3131; TLX: 86-6570.
Paints, varnishes and lacquers.

SHERWIN-WILLIAMS CO.
Cleveland, OH 44115, Ph. 216-566-2000.
Paints, varnishes, enamels, paint chemicals, pigments and dry colors.

SPENCER KELLOGG DIV. TEXTRON INC.
Buffalo, NY 14240, Ph. 716-852-5850.
Complete line of refined soy oils for use in alkyd resins, etc., Drisoy drying soy oil, modified soy oils for protective coatings.

MEXICO

ACEITES POLIMERIZADOS S.A.
Calzada Inguaran, P.O. Box 14779, Mexico 14, D.F., Ph. 577-39-23.
Refined, polimerized (thermal, oxidative), epoxidized (apolflex 70), resins for paint and varnishes and fatty acids (including linoleic acid).

PHILIPPINES

UNIVERSAL ROBINA CORP.
E. Rodriguez Ave., Bagong Ilog, Pasig, M. Manila, Ph. 682-5402.
Paints, varnishes.

RESINS

UNITED STATES

CELANESE PLASTICS & SPECIALTIES CO.
Resin Div., P.O. Box 8248, Louisville, KY 40208, Ph. 502-585-8011.
Synthetic resins such as alkyds, epoxies, curing agents, UFS, etc., furnished for the paint and plastics markets.

REICHHOLD CHEMICALS INC.
White Plains, NY 10603, Ph. 914-682-5700; TWX: 710-568-1373.
Alkyd resins.

JAPAN

HOHNEN OIL CO. LTD.
Mitsui Life Insurance Bldg., 1-2-3, Ohtemachi, Chiyoda-ku, Tokyo, Ph. 211-6511.
Synthetic resin adhesives.

PHILIPPINES

UNIVERSAL ROBINA CORP.
E. Rodriguez Ave., Bagong Ilog, Pasig, M. Manila, Ph. 682-5402.
Resins.

SOAPS

UNITED STATES

PVO INTERNATIONAL INC.
3400 North Wharf St., St. Louis, MO 63147, Ph. 314-622-0200.
Soaps.

PROCTOR & GAMBLE CO.
P.O. Box 599, Cincinnati, OH 45201.
Soaps.

BRAZIL

S.A. MOINHOS RIO GRANDENSES (SAMRIG)
Rua de Conceicao, 195, Porto Alegre, RGS, Ph. 24-1033; TLX: 028778 (SAMRIG PAE).
GLISAM glycerin and soapstock.

CANADA

CANADA PACKERS INC. CHEMICAL DIV.
5100 Timberlea Blvd., Mississauga, Ontario L4W 2S5, Ph. 416-624-7000.
Soaps.*

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PARS VEGETABLE OIL CO.
483 Ave. Hafez, P.O. Box 1982, Tehran, Ph. 3122039.
Bath and laundry soaps.

industrial product...

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ETZ HAZAITH LTD.
P.O. Box 193, Petah-Tikva, Ph. 927171; TLX: 341859.
Soaps.*

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SOCIETE D'EXPLOITATION DES PRODUITS OLEAGINEUX (SEPO)
2 Rue du Caporal Corbi a Calablancee (R.N.) B.P. 3094, Ph. 24-10-96 or 24-63-36; TLX: 25-076.
Soaps.*

UNIGRAL CRISTAL
10-14 Rue Mostapha El Maani, B.P. 253 Casablanca, Ph. 311176; TLX: 21063.
Soaps.*

SOY STEROLS & TOCOPHEROLS

UNITED STATES

HENKEL CORPORATION
4620 W. 77th, Minneapolis, MN 55435, Ph. 612-830-7808; TLX: 29-0472.
Process soy oil deodorizer distillate at Kankakee, IL plant to produce soya sterols, tocopherols and natural vitamin E.

SOYBEAN FATTY ACIDS

UNITED STATES

CAPITAL CITY PRODUCTS
Div. of Stokley-Van Camp Inc., Chemical Div., 525 W. 1st. Ave., P.O. Box 569, Columbus, OH 43215, Ph. 614-299-3131; TLX: 245494.
Capital 172 distilled and Capital 182 doubledistilled soy fatty acids.

EMERY INDUSTRIES INC.
Carew Tower, Cincinnati, OH 45202, Ph. 513-762-6200; TWX: 810-461-2412.
Emery 610 soya fatty acid. Emersol 315 linoleic acid by the Emersol process for separation of liquid and solid components of soya fatty acids by selective solvent crystallization.

A. GROSS & CO.
MILL-MASTER ONYX GROUP
KEWANEE INDUSTRIES INC.
P.O. Box 818, Newark, NJ 07101, Ph. 201-344-0900.

CANADA

CANADA PACKERS INC.
CHEMICAL DIV.
5100 Timberlea Blvd., Mississauga, Ontario L4W 2S5, Ph. 416-624-7000.
Soybean fatty acids.*

MEXICO

ACEITES POLIMERIZADOS S.A.
Inguaran No. 5719, Mexico 14, D.F., Ph. 577-39-23.
Soy fatty acid distillates.

FINLAND

OY KASVIOLJY
21200 Raisio, Ph. Turku 921-780-311; TLX: 62140 (RAUL SF).
Distilled fatty acids.*

JAPAN

THE NISSHIN OIL MILLS, LTD.
23-1, 1-Chome, Shinkawa, Chuo-ku, Tokyo, Ph. 03-555-6923.
Fatty acids.

SHOWA SANGYO CO. LTD.
2-1, 2-Chome, Uchikanda, Chiyoda-ku, Tokyo 101, Ph. 257-2020.
Fatty acids.*

BARZEN OF MINNEAPOLIS, INC.

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ALL VARIETIES - HIGHEST SPECIFICATIONS, CERTIFIED AND UNCERTIFIED SOYBEANS, OILSEEDS, SUNFLOWER SEED, SEED GRAINS, LEGUMES AND GRASSES, PROMPT REPLY TO INQUIRIES.

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exporters

AG-WORLD EXPORTS
1009 W. Washington St., P.O. Box 3337, Bloomington, IL 61701, Ph. 309-827-3484; TWX: 510-352-2171 (AG WORLD).
Agricultural equipment, food products, live swine, dairy and beef cattle, goats, sheep, horses, and other types of live animals.

AGRICULTURAL EXPORTS INC.
Hudson, IA 50643, Ph. 319-988-4593; TLX: 46531; CABLE: AGRIPORT.
Soybeans for seed or food purposes, bulk or bagged, vegetable and field varieties, split dehulled soybeans for food purposes.

AMERICAN LECITHIN CO.
32-34 61st St., Woodside, Long Island, NY 11377, Ph. 212-274-4350; TLX: 54-2238.
Lecithin.

ANDERSON, CLAYTON & CO.
P.O. Box 2538, Houston, TX 77001, Ph. 713-651-0641.
Degummed soy oil, soybean meal, salad oil, salad dressing, cooking oil, shortening and margarine.

ARCHER DANIELS MIDLAND CO.
P.O. Box 1470, Decatur, IL 62525, Ph. 217-424-5453; Offices at: Galesburg and Granite City, IL; Fredonia, KS; Mankato, MN; Lincoln, NE.
Degummed, once refined and fully refined soybean meal, oil, flour, flakes, grits, lecithin, salad oil, cooking oil, shortening oil, margarine oil, meat analogs, sausage binders and textured soy proteins.

BALFOUR-MACLAINE INTERNATIONAL LTD.
Wall St. Plaza, New York, NY 10005, Ph. 212-425-2100; TLX: 126985; INT'L. TLX: RCA 232072.
Crude, degummed, once refined, fully refined soybean oil, cottonseed oil, tallow, lard, sunflower seed and sunflower oil.

BARZEN OF MINNEAPOLIS INC.
455 Harrison St. N.E., Minneapolis, MN 55440, Ph. 612-379-2060; TLX: 29-0611.
Exporter of seed soybeans, seed grains, other oilseeds, legumes and grasses, all varieties.

BUNGE CORP.
One Chase Manhattan Plaza, New York, NY 10005; Ph. 212-943-6600; Offices at: Oscela and Pine Bluff, AR; Albany, Chicago, Cairo and Shawneetown, IL; Hutchinson, KS; Destrehan, LA; Duluth and Minneapolis, MN; Greenville, MS; Portland, OR; and Fort Worth, TX.
Soybeans, meal and crude, degummed, once refined and fully refined soy oil.

BUNGE EDIBLE OIL CORP.
P.O. Box 765, Kankakee, IL 60901, Ph. 815-939-3631; Other locations: Chattanooga, TN and Fort Worth, TX.
Salad oil, cooking oil, shortening and margarine.

CADUR TRADING CORP.
1037 N.W. 21st Terrace, Miami, FL 33127, Ph. 305-635-0000; TLX: 518952.
Fully refined soy oil and shortening.

CAPITAL CITY PRODUCTS CO.
Div. Stokely Van Camp Inc., P.O. Box 569, Columbus, OH 43216; Ph. 614-299-3131; TLX: 245-494.
Fully refined soy oil, salad and cooking oil, shortening and margarine.

CARGILL INC.
P.O. Box 9300, Minneapolis, MN 55440, Ph. 612-475-7575; Other locations: Osceola, FL; Chicago, IL; Memphis, TN; Chesapeake, VA.
Handles crude and degummed soybean oil and meal; once refined soybean oil and meal; soy flour for export.

CENTRAL SOYA
1300 Fort Wayne National Bank Bldg., Fort Wayne, IN 46802, Ph. 219-425-5100; INT'L. TLX: 0232-410.
Once refined and fully refined vegetable oil, soybean meal, flour, flakes and grits, lecithin, salad oil, cooking oil, margarine oil, shortening, sausage binders, soy protein concentrates, textured soy flours, textured soy concentrates, soybeans, corn, livestock and poultry feeds.

A.E. CHEW & CO. INC.
One World Trade Center, Suite 1907, New York, NY 10048, Ph. 212-432-0590; TLX: 232715; TWX: 710-581-2333.
Fully refined soy oil bulk, drums and packaged, breakfast foods, cookies, crackers, salad oil, mayonnaise, cooking oil, seasonings, soy sauce, soybean meal and partially refined oil.

CLEARY TRADING CORP.
1049 Somerset St., Somerset, NJ 08873, Ph. 201-247-8000.
Lecithin.

CONTINENTAL GRAIN CO.
277 Park Ave., New York, NY 10017, Ph. 212-826-5100; Other locations: Guntersville, AL; Taylorville, IL; Cameron, SC.
Grain merchants and exporters.

DAWSON FOOD INGREDIENTS, INC.
Minneapolis, MN 55344, Ph. 612-944-6696; TLX: 290473.
Soy grits, soy flour, textured soy flour, isolated soy protein, spun protein fibrils and meat analogs.

LOUIS DREYFUS CORP.
24 Richmond Hill Ave., Stamford, CT 06904, Ph. 203-357-8444; TLX: 996315; Offices at: Chicago, Curran and Pekin, IL; New Orleans, LA; Pascgoula, MS; Baltimore, MD; Guckeen and Minneapolis, MN; Kansas City, MO; Portland, OR; Fort Worth, TX.
Grain merchandiser and exporter.

DURKEE FOODS DIV. SCM CORP.
900 Union Commerce Bldg., Cleveland, OH 44115, Ph. 216-344-8000; Other locations: Lafayette, CA; Chicago, IL; Louisville, KY; New York, NY.
Once refined and fully refined soy oil, salad and cooking oil and shortening.

EDIBLE SOY PRODUCTS INC.
711 Seventh St., Hudson, IA 50643, Ph. 319-988-2221.
Health foods and roasted soybeans.

FARMER CITY GRAIN CO.
Sub. of Tabor Grain Co., 201 W. North St., Farmer City, IL 61842, Ph. 309-928-2185.
Conditioners and shippers of high quality certified seed grains, SRF and public varieties of soybean seed.

FARMERS EXPORT CO.
One Ward Pkwy., Suite 215, Kansas City, MO 64112, Ph. 816-753-2070; TLX: 43-40-39; TWX: 910-771-0910.
Grain merchandiser and exporter of soybeans.

FEARN SOYA FOODS
DIV. RICHARDS FOOD CORP.
4520 James Pl., Melrose Park, IL 60160, Ph. 312-345-2335.
Flour, flakes and grits, lecithin, soybeans for cooking, health foods, blended foods, breakfast foods, flour mixes, soy protein concentrates and isolates. Consumer packages only. Soya powder, soya granules, SOY-O baking mixes, protein supplements based on soy, liquid lecithin.

C.B. FOX CO.
1620 First National Bank of Commerce Bldg., New Orleans, LA 70112, Ph. 504-588-9211; TLX: 58216; TWX: 810-951-6215.
Exporter of grain, soybeans and soybean products.

MSI

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EXECUTIVE VICE PRESIDENT

KIM F. PLEGGENKUHLE
MANAGER

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P.O. Box 2210, Atlanta, GA 30301, Ph. 404-393-5030; TLX: 54-2338.
(Mgr.International Div.)M.A. Stimpert.
Soybean meal and oil.

GRAIN PROCESSING CORP.
1600 Oregon St., Muscatine, IA 52761, Ph. 319-264-4278; TLX: 468497.
Soy protein isolates.

GURLEY'S INC.
P.O. Box 388, Selma, NE 27576, Ph. 919-965-2303; Wats: 800-334-9631; NC Wats: 672-8131; TLX: 802532; CABLE: GURLEY.
Soybean meal, oil and soybeans for cooking.

HASSELMAN BROKERAGE CO. INC.
Harwood Bldg., Scarsdale, NY 10583, Ph. 212-234-8000; TLX: 137452.
Exporters crude, degummed, once refined and fully refined soy oil, soybean meal and soapstocks.

INARI, LTD.
2331 Forest Rd., Lansing, MI 48910, Ph. 517-882-3323; TLX: 229-440 (MICH AGRI LSG).
Exporters quality identity preserved soybeans, whole roasted soynuts, salted, unsalted and flavored.

INTERCONTINENTAL ASSOCIATES INC.
P.O. Box 396, Essex, CT 06426, Ph. 203-767-0224; TLX 955329; CABLE: INTER-CONT.
Soups, seafood specialties, spices, jells, bouquet garni, sauces, gourmet specialties and ONE OUNCE cola.

C. ITOH & CO. (America) INC.
270 Park Ave., New York, NY 10017, Ph. 212-953-5237.

LOU ANA FOODS INC.
P.O. Box 591, Opelousas, LA 70570, Ph. 318-948-6561; TLX: 58-6645 (LAF OPLS).
Once refined and fully refined soy oil.

M.F.A. GRAIN MARKETING DIV.
400 E. Holt St., P.O. Box 39, Mexico, MO 65265; TLX: 1-910-760-1527.
Exporters of soybean meal, oil and lecithin.

MALT-O-MEAL CO.
1520 TCF Tower, Minneapolis, MN 55402, Ph. 612-338-8551.
Roasted soy nuts, unsalted, barbecue and garlic flavored.

MARUBENI AMERICA CORPORATION
200 Park Ave., New York, NY 10166, Ph. 212-973-7181.
Exporter of grains and oilseed products.

MARWOOD CO.
One Maritime Plaza, San Francisco, CA 94111, Ph. 415-986-6660; TLX: WU 34-0910.
Crude, degummed, once refined and fully refined soy oil, salad and cooking oil.

MICO INC.
P.O. Box 1508, Bloomington, IL 61701, Ph. 309-662-9344.
Grain and seed exporter of soybeans.

MIDWEST SOYA INTERNATIONAL INC.
714 W. First, Cedar Falls, IA 50613, Ph. 319-277-7202; TLX: 465650.
Exporters of quality, identity preserved soybeans, bulk or bagged containerized shipments, quality soybean meal, soybean seed for planting, commercial grade shipments of soybeans and corn. Export facility at Clear Lake, IA.

PVO INTERNATIONAL INC.
World Trade Center, No. 130, San Francisco, CA 94111.
Processed soybeans and oil.

PACIFIC GRAIN CO.
201 W. North St., Farmer City, IL 61842, Ph. 309-928-2185.
Supplier of corn and soybeans to both domestic and export markets specializing in quality grain identity preserved.

PEAVEY CO.
730 Second Ave. S., Minneapolis, MN 55402, Ph. 612-370-7551; TLX: 290125.
Gordon V. Jones
Exporter of soybeans and soybean products.

THE PILLSBURY CO.
Grain Merchandising Div., Pillsbury Bldg., Minneapolis, MN 55402, Ph. 612-330-8054; TLX: 290668.
Exporters of soybeans, wheat and corn.

RALSTON PURINA CO.
Checkerboard Square, St. Louis, MO 63188, Ph. 314-982-2511; TLX: 447620; Other locations: Bloomington, IL; Lafayette, IN; Iowa Falls, IA; Louisville, KY; Kansas City, MO; Raleigh, NC; Memphis, TN.
Degummed soybean meal, oil, flour, flakes and grits, lecithin, soy protein isolates, textured soy protein, fiber textured products and structured protein isolates.

RICELAND FOODS
2120 Park Ave., P.O. Box 926, Stuttgart, AR 72160, Ph. 501-673-5500; Other location: Helena, AR.
Soybeans, fully refined soy oil, soybean varieties, salad oil, lecithin, cooking oil, shortening, soybean meal and pellets.

ROSS & ROWE
Div. Archer Daniels Midland Co., P.O. Box 1409, Decatur, IL 62525, Ph. 217-424-5804.
Lecithin.

SCHOKHI INDUSTRIALS PVT. LTD.
143 Jolly-Maker Chambers Two, 14th Floor, 225 Nariman Point, Bombay 400 021, India, Ph. 231320; TLX: 0-11-3078 (UTPA IN); CABLE: UTPADAN.
Exporters of soybean meal to the Far East and Middle East markets.

SCHOUTEN INTERNATIONAL INC.
6750 France Ave. S., Minneapolis, MN 55435,

Ph. 612-920-7700; TLX: 290815.
Exporters of soybeans and meal, grains, and feed ingredients.

SHEDD'S FOOD PRODUCTS
14401 Dexter Blvd., Detroit, MI 48238, Ph. 313-868-5810; Other locations: Sunnyvale, CA; Elgin, IL; Omaha, NE; Greenville, SC; Dallas, TX.
Salad dressing, margarine, mayonnaise, shortening, salad oils and cooking oils.

SOY-COT SALES INC.
2590 E. Devon Ave., Des Plaines, IL 60018, Ph. 312-297-4160; TLX: 726319; TWX: 910-233-5992.
Crude and degummed soy oil, crude and bleachable cottonseed oil, 44% and 50% soybean meal, cottonseed meal.

A.E. STALEY MFG. CO.
P.O. Box 151, Decatur, IL 62525, Ph. 217-423-4411.
Soybean meal, industrial oils, fully refined and hydrogenated soybean oils, soy flour, flakes and grits, lecithin, soy whipping agents, seasonings, soy sauce, soy protein concentrates and textured vegetable protein concentrates and textured soy proteins.

SUMITOMO CORPORATION OF AMERICA
345 Park Ave., New York, NY 10154, Ph. 212-935-8847; TWX: 710-581-4453.
(Mgr. produce & fertilizer)Mr. K. Yamada.
Exporters of grain and oilseed products.

TABOR GRAIN CO.
P.O. Box 1470, Decatur, IL 62525, Ph. 217-424-5440; TLX: 250119.
Soybeans and soybeans for cooking.

TOSHOKU AMERICA INC.
551 5th Ave., New York, NY 10017, Ph. 212-661-5400; TLX: 12389 (WU); Parent Company: Toshoku Ltd., Shin-Muromachi, Bldg. No. 4, Nihonbashi Muromachi, 2-Chome, Chuo-ku, Tokyo, Japan.
Trading for foreign countries - especially Europe, Taiwan and Japan.

VED BRAT & CO.
Sub. of Reg. Soya Protein Ltd., 39-C Prem House, Connaught Place, New Delhi-1, India, Ph. 352761.
Exporter of textured vegetable protein and protein isolates.

WELLENS & CO. INC.
6700 France Ave. S., Minneapolis, MN 55435, Ph. 612-925-4600.
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WOODWARD & DICKERSON INC.
Woodward House, 937 Haverford Rd., Bryn Mawr, PA 19010, Ph. 215-527-5200; TLX: 084-5244; TWX: 510-662-3381.
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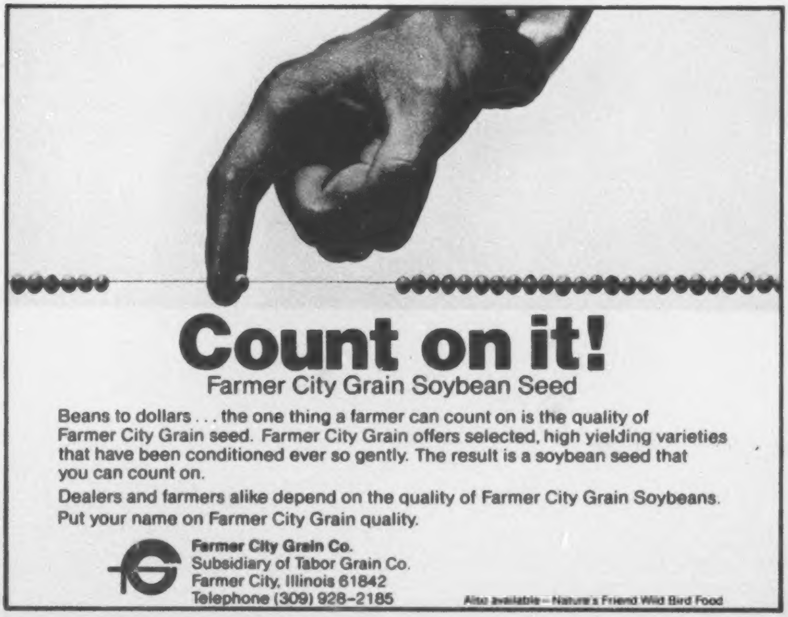

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buyer's guide
to products & services

How to Use the 1981 Buyer's Guide

The Buyer's Guide can best be used by locating the desired product or service in the Category Listing beginning below. Once the page number is obtained, turn to the corresponding page under Products and Services beginning on page 83. A group of suppliers will be listed under the heading desired. To contact any or all of the suppliers turn to the Manufacturers & Suppliers Guide beginning on page 105. Additionally, each company can be found in the Buyer's Guide index beginning on page 184.

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COMMERCIAL EQUIPMENT & SUPPLIES

AIR CLASSIFIERS

Alpine American Corp.

ASPIRATORS

Buhler Brothers Ltd. (Switzerland)
Buhler-Miag Inc.
CEA Carter-Day Company
Codema Inc.
Crippen Mfg. Co. Inc.
Ferrell-Ross
S. Howes Co. Inc.
N. Hunt Moore & Associates Inc.
Huntley Mfg. Co. Inc.
Smico Corporation
Sprout-Waldron Div.
Triple/S Dynamics
D.W. Tyler Co.

AUTOMATIC SAMPLERS

CEA Carter-Day Company
Dabney-Hoover Supply Co. Inc.
Gustafson Inc.
International Stanley Corp.
Jaham Mfg. Co. Inc.
Quality Control Equipment Co.

AUTOMATION

Codema Inc.
Elliott Automation Co. Inc.
FMC Corporation, Material Handling Systems Div.
MCC Powers

BAGGING EQUIPMENT

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The Chantland Company
Dabney-Hoover Supply Co. Inc.
Du-Val Industrial Foreign Trade Corp.
Dave Fishbein Co.
Greif Bros. Corp.
S. Howes Co. Inc.
Newell Machinery Co.
Quality Control Equipment Co.
Smico Corporation
D. W. Tyler Co.

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Great Plains Bag Corporation
Langston Bag Co.
Werthan Industries Inc.

BEARINGS

Browning Mfg. Co.
Dabney-Hoover Supply Co. Inc.
Dodge Reliance Electric
FMC Corporation, Bearings Div.
Newell Machinery Co.
Precision Roll Grinders, Inc.
Union Iron

BELTING

Browning Mfg. Co.
Dabney-Hoover Supply Co. Inc.
Dodge Reliance Electric
Ferrell-Ross
Fort Worth Steel & Machinery
Lakeland Engineering Equipment Co.
Newell Machinery Co.
Precision Roll Grinders, Inc.
Scandura Inc.
Siegling America Inc.
Union Iron
Universal Industries
H.R. Williams Mill Supply Company

BELTING ACCESSORIES

Flexible Steel Lacing
Martin Engineering Co.

CHAINS

Browning Mfg. Co.
Codema Inc.
Dabney-Hoover Supply Co. Inc.
Divine Engineering, Inc.
Dodge Reliance Electric
Du-Val Industrial Foreign Trade Corp.
Fort Worth Steel & Machinery
Newell Machinery Co.
Powers Transmission Div., Dresser Industries
Union Iron

CLEANING LUBRICATING EQUIPMENT

Wheelabrator-Frye Inc.

COLOR MEASURING INSTRUMENTS

The Tintometer Ltd. (England)

CONTROL INSTRUMENTS, SYSTEMS

Bindicator Company
Control Assemblies Co.
Elliott Automation Co. Inc.
The Foxboro Company
French Oil Mill Machinery Co.
Honeywell Inc.
MCC Powers
Newport Instruments Ltd. (England)
Technicon Industrial Systems

CONVEYORS, ELEVATORS

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Buhler-Miag Inc.
CEA Carter-Day Company
The Chantland Company
Codema, Inc.
Dabney-Hoover Supply Co. Inc.
Damman-Croes SA (Belgium)
Divine Engineering, Inc.
Dunbar Kapple
Du-Val Industrial Foreign Trade Corp.
Electrical Engineering & Equipment Co.
FMC Corporation, Material Handling Systems Div.
Feeco International, Inc.
Ferrell-Ross
Fort Worth Steel & Machinery
Hagan Mfg. Co.
Hayes & Stolz Industrial Mfg. Co. Inc.
S. Howes Co. Inc.
Jeffery Manufacturing Div., Dresser Industries
Lakeland Engineering & Equipment Co.
Mid-America Products, Inc.
Mix-Mill Mfg. Co.
Moorhead Machinery & Boiler Company
Newell Machinery Co.
Portable Elevator Div.
Power Transmission Div., Dresser Industries
Screw Conveyor Corp.
Seedburo Equipment Co.
Speed King Mfg. Co. Inc.
Sprout-Waldron Div.
Thomas Conveyor Co.
Tramco Metal Products, Inc.
Triple/S Dynamics
D. W. Tyler Co.
Union Iron
Universal Industries
Wheelabrator-Frye, Inc.
Wyatt Mfg. Co. Inc.

DRYING & AERATION

CONDITIONERS & COOLERS

American Drynamics Inc.
Davenport Machine & Foundry Co.

GRAIN DRYERS

Aeroglide Corporation
American Drying Systems
American Drynamics Inc.
American Farm Equipment Co.
Berico Industries
Buhler Brothers Ltd. (Switzerland)
CEA Carter-Day Company
Chicago Eastern Corp.
Dabney-Hoover Supply Co. Inc.
Damman-Croes SA (Belgium)
Davenport Machinery & Foundry Co.
Driall Inc.
Du-Val Industrial Foreign Trade Corp.
FMC Corporation, Material Handling Systems Div.
Farm Fans Inc.
Ferrell-Ross
Hagan Mfg. Co.
Kuss Corporation
M & W Gear Co.
Mathews Company
Mid-America Products, Inc.
Newell Machinery Co.
Ponndorf Maschinenfabrik GmbH (W. Germany)
George A. Rolfes Company
Sprout-Waldron Div.
D.W. Tyler Co.

MEAL DRYERS

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Buhler Brothers Ltd. (Switzerland)
Damman-Croes SA (Belgium)
Davenport Machine & Foundry Co.
FMC Corporation, Material Handling Systems Div.

French Oil Mill Machinery Co.
Moorhead Machinery &Boiler Company
Ponndorf Maschinenfabrik GmbH (W. Germany)

DUST CONTROL FILTER BAGS

H.R. Williams Mill Supply Co.

DUST CONTROL SYSTEMS

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Buhler Miag Inc.
CEA Carter-Day Company
Codema Inc.
Entoleter
Feeco International Inc.
Forsbergs Inc.
MikroPul Corporation
Moorhead Machinery & Boiler Co.
Nadustco, Inc.
Newell Machinery Co.
Precision Roll Grinders, Inc.
Pulverizing Machinery Div., MikroPul Corp.
George A. Rolfes Company
Smico Corporation
Sprout-Waldron Div.
D.W. Tyler Co.
Wheelabrator-Frye, Inc.

ELEVATOR BUCKETS

Codema Inc.
Dabney-Hoover Supply Co. Inc.
Ferrell-Ross
Fort Worth Steel & Machinery Co.
Hagan Mfg. Co.
Jeffrey Manufacturing Div., Dresser Industries, Inc.
Moorhead Machinery & Boiler Co.
Newell Machinery Co.
Screw Conveyor Corp.
Seedburo Equipment Co.
Sprout-Waldron Div.
D.W. Tyler Co.
Union Iron
Universal Industries
H.R. Williams Mill Supply Co.
K.I. Willis Corp.

ELEVATOR LIFTS

Bender Ross Equipment Co., Inc.

FANS

Buhler Brothers Ltd. (Switzerland)
CEA Carter-Day Company
Codema Inc.
Dabney-Hoover Supply Co. Inc.
Farm Fans Inc.
Forsbergs, Inc.
Jacobson Machine Works, Inc.
Nadustco, Inc.
Newell Machinery Co.
Precision Roll Grinders, Inc.
George A. Rolfes Company
Sprout-Waldron Div.
Triple/S Dynamics

FUMIGANTS

USS Agri-Chemicals

GRAIN ANALYZERS

Buhler Brothers Ltd. (Switzerland)
Dickey-john Corp.
Foss America Inc.
Neotec Corporation
Newell Machinery Co.
Newport Instruments Ltd.
Tecator, Inc.
Technicon Industrial Systems

GRAIN & MATERIAL HANDLING EQUIPMENT

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CEA Carter-Day Company
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Codema Inc.
Dabney-Hoover Supply Co. Inc.
Damman-Croes SA (Belgium)
Divine Engineering, Inc.
Dunbar Kapple
Electrical Engineering & Equipment Co.
FMC Corporation, Material Handling Systems Div.
Farm Fans Inc.
Feeco International, Inc.
Ferrell-Ross
Forsbergs, Inc.
Fort Worth Steel & Machinery Co.
Hagan Mfg. Co.
Hayes & Stolz Industrial Mfg. Co. Inc.
Howe Richardson Scale Co.
International Stanley
Jeffery Mfg. Div., Dresser Industries Inc.
Lely Independence Mfg. Co.
Mathews Company
Mayrath Industries, Inc.
Mid-America Products, Inc.
N. Hunt Moore & Assoc., Inc.
Newell Machinery Co.
Phelps Industries, Inc.
Portable Elevator Div.
Power Transmission Div., Dresser Industries Inc.
Pulverizing Machinery Div., MikroPul Corp.
Screw Conveyor Corp.
Seedburo Equip. Co.
Smico Corporation
Speed King Mfg. Co. Inc.
Sprout-Waldron Div.
Triple/S Dynamics
D. W. Tyler Co.
Union Iron
Universal Industries
Wesmar Level Monitor Div.
Wyatt Mfg. Co. Inc.

GRAIN CLEANING, SEPARATING EQUIPMENT

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Hermann Bauermeister Maschinenfabrik GmbH (W. Germany)
Buhler Brothers Ltd. (Switzerland)
Buhler-Miag Inc.
CEA Carter-Day Company
Codema, Inc.
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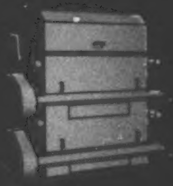

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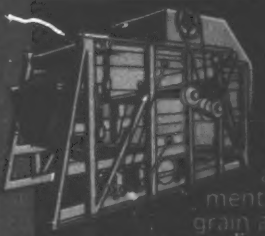

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Pulverizing Machinery Div., MikroPul Corp.
Seedburo Equipment Co.
Smico Corporation
Sprout-Waldron Div.
Sweco, Inc.
Triple/S Dynamics
D.W. Tyler Co.
Union Iron
Universal Industries
H.R. Williams Mill Supply Co.
Wyatt Mfg. Co. Inc.

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Crippen Mfg. Co. Inc.
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Ferrell-Ross
Huntley Mfg. Co. Inc.
International Stanley Corp.
Newell Machinery Co.
Seedburo Equipment Co.
Sprout-Waldron Div.
Triple/S Dynamics
D.W. Tyler Co.

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Hermann Bauermeister Maschinenfabrik GmbH (W. Germany)
Buhler Brothers Ltd. (Switzerland)
Codema Inc.
Dabney-Hoover Supply Co. Inc.
Damman-Croes SA (Belgium)
Entoleter
Ferrell-Ross
Fried Krupp GmbH (W. Germany)
S. Howes Co. Inc.
Jacobson Machine Works
Jensen Mills
Mix-Mill Mfg. Co.
N. Hunt Moore & Assoc., Inc.
Newell Machinery Co.
Prater Industries, Inc.
Precision Roll Grinders, Inc.
Pulverizing Machinery Div., MikroPul Corp.
Roskamp Mfg. Inc.
Sprout-Waldron Div.
Sweco, Inc.
Urschel Laboratories, Inc.

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Erdco Engineering Corp.
Foss America Inc.
The Foxboro Company
Neotec Corporation
Newport Instruments Ltd. (England)
Pulverizing Machinery Div., MikroPul Corp.
Sprout-Waldron Div.
Tecator, Inc.
Technicon Industrial Systems
The Tintometer Ltd. (England)

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Martin Engineering Co.

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Dabney Hoover Supply Co. Inc.
Howe Richardson Scale Co.
Seedburo Equip. Co.
Wesmar Level Monitor Div.

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Dabney-Hoover Supply Co. Inc.
John Deere & Company
Dickey-john Corp.
Foss America Inc.
Mathews Company
Mid-America Products, Inc.
Motomco Inc.
Neotec Corporation
Newport Instruments Ltd. (England)
Seedburo Equip. Co.
Tecator Inc.
Technicon Industrial Systems

OIL/FAT & OIL/FIBER ANALYZERS

Technicon Industrial Systems

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Buhler Brothers Ltd. (Switzerland)
California Pellet Mill Co.
Du-Val Industrial Foreign Trade Corp.
Feeco International Inc.
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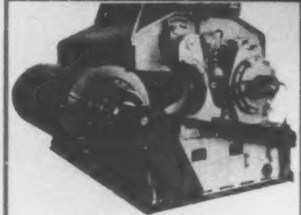

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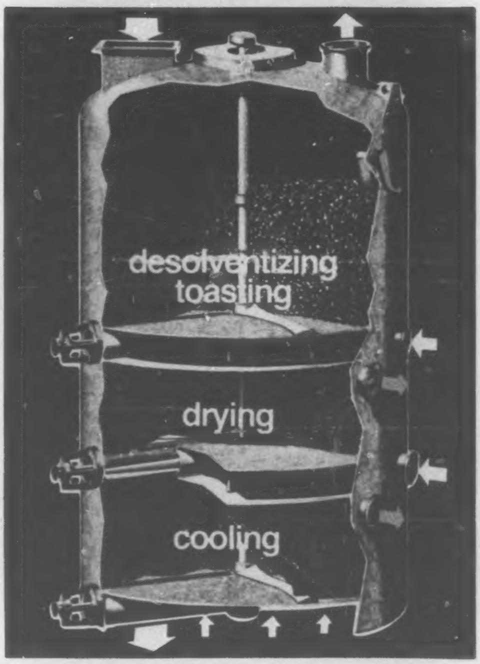

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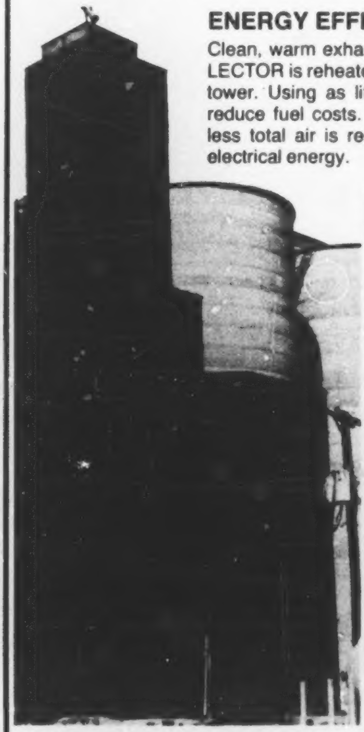

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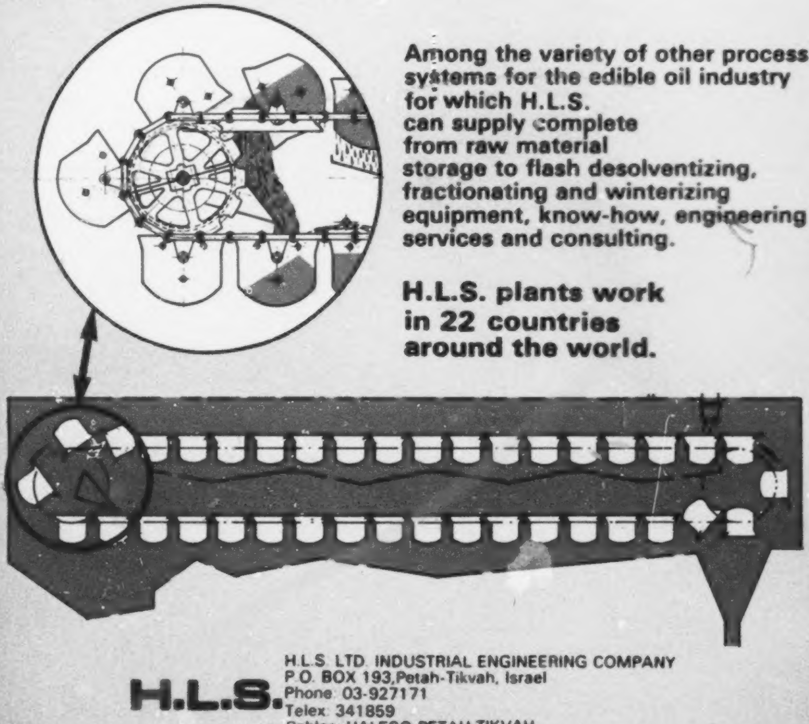

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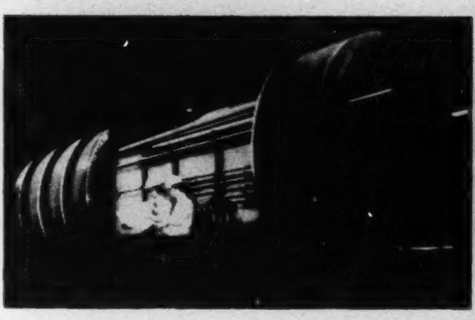

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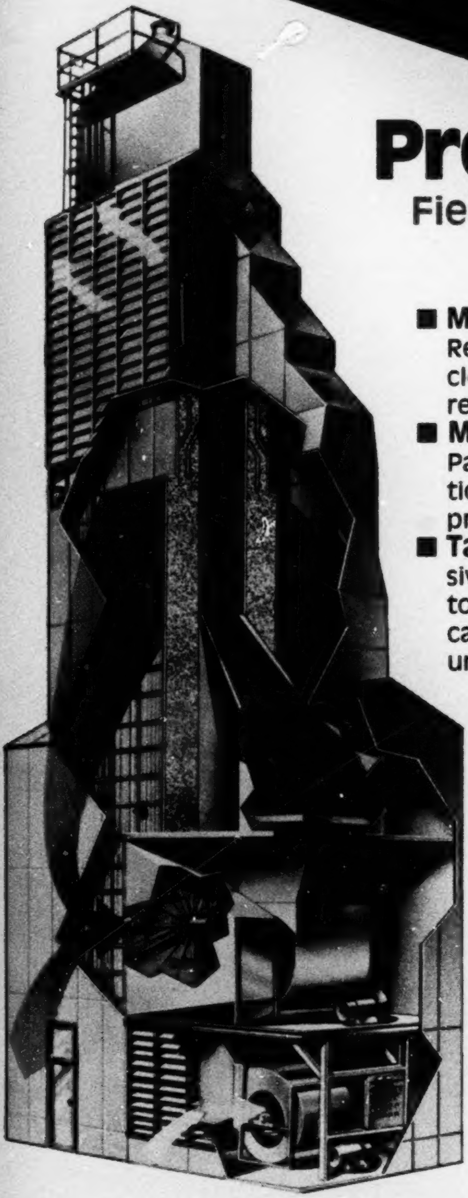

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CONTACT PERSON: Stan Boley
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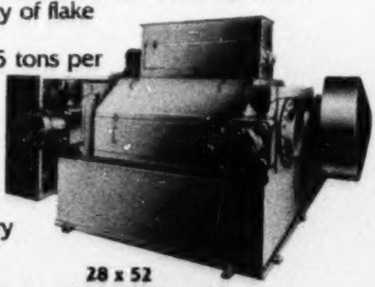

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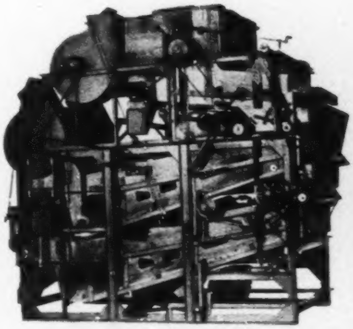

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SERVICES UNDER: Commercial Services

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SERVICES UNDER: Commercial Services

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CONTACT PERSON: C.W. Hoover, Jr.
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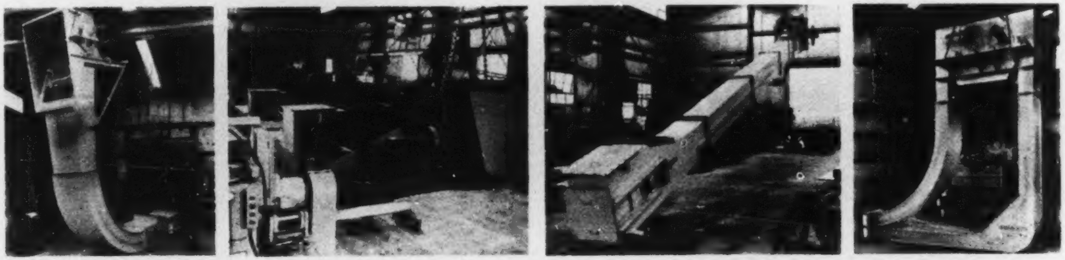

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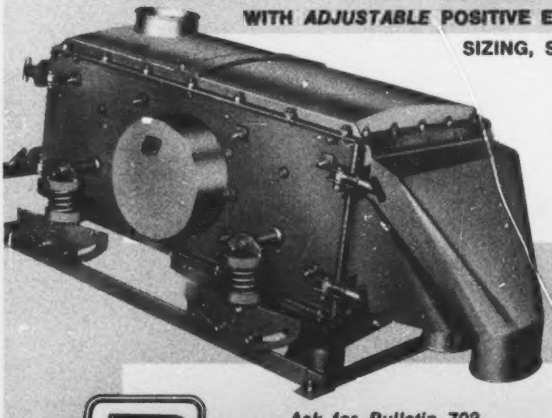

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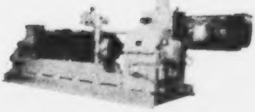
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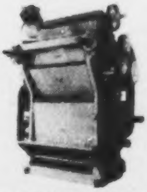
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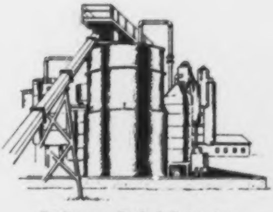
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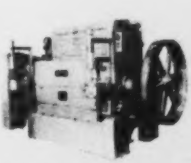
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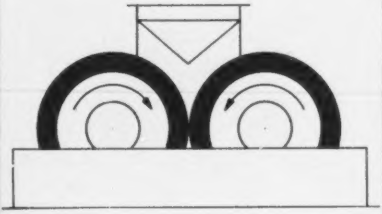

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CONTACT PERSON: R.J. Buchholtz, Gen. Mgr.
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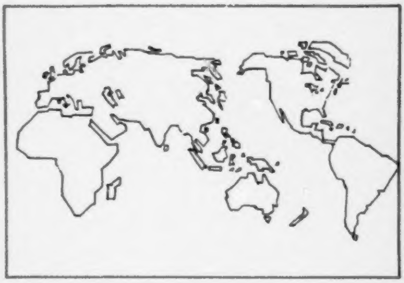

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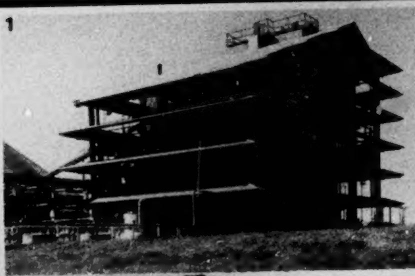

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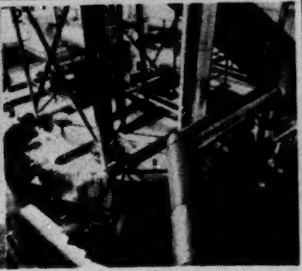

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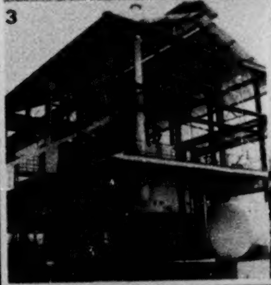

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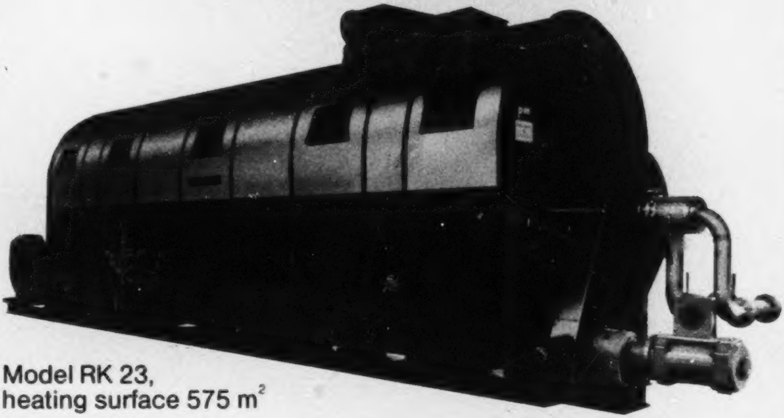

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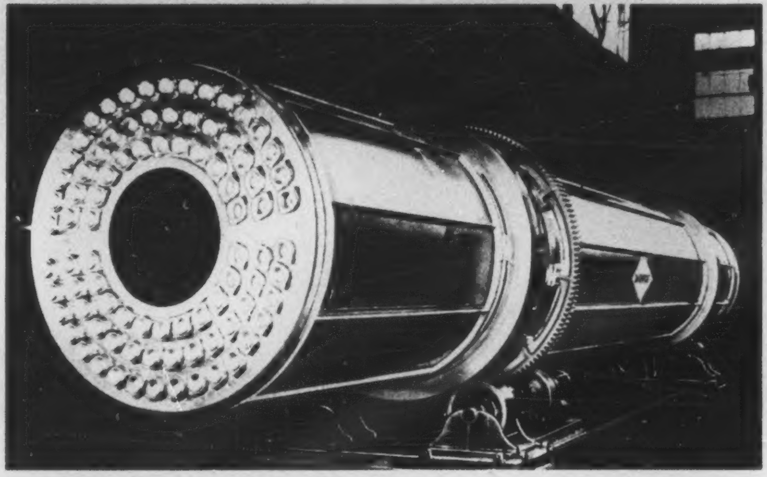

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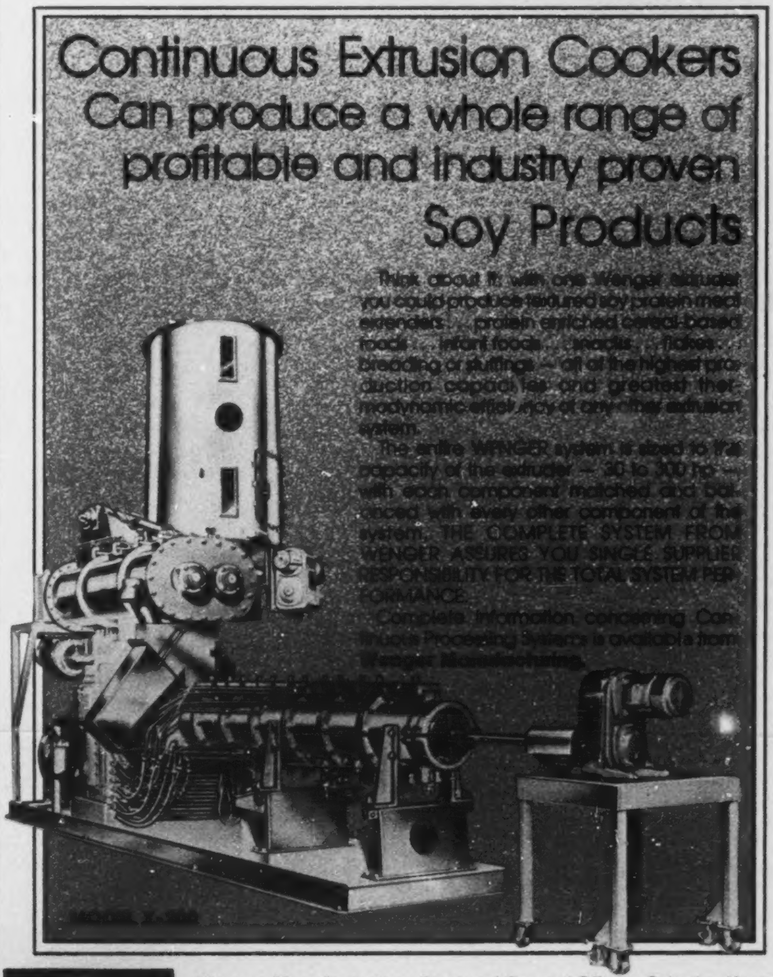

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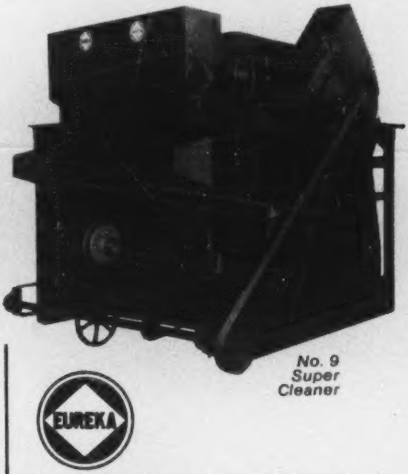

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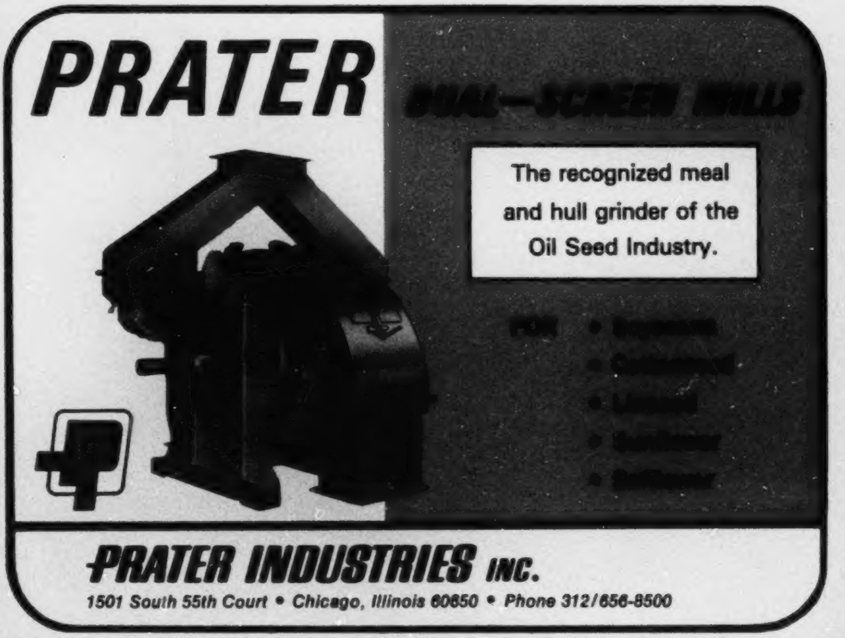
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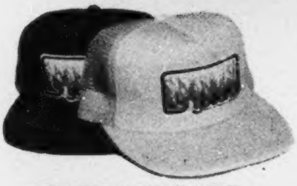

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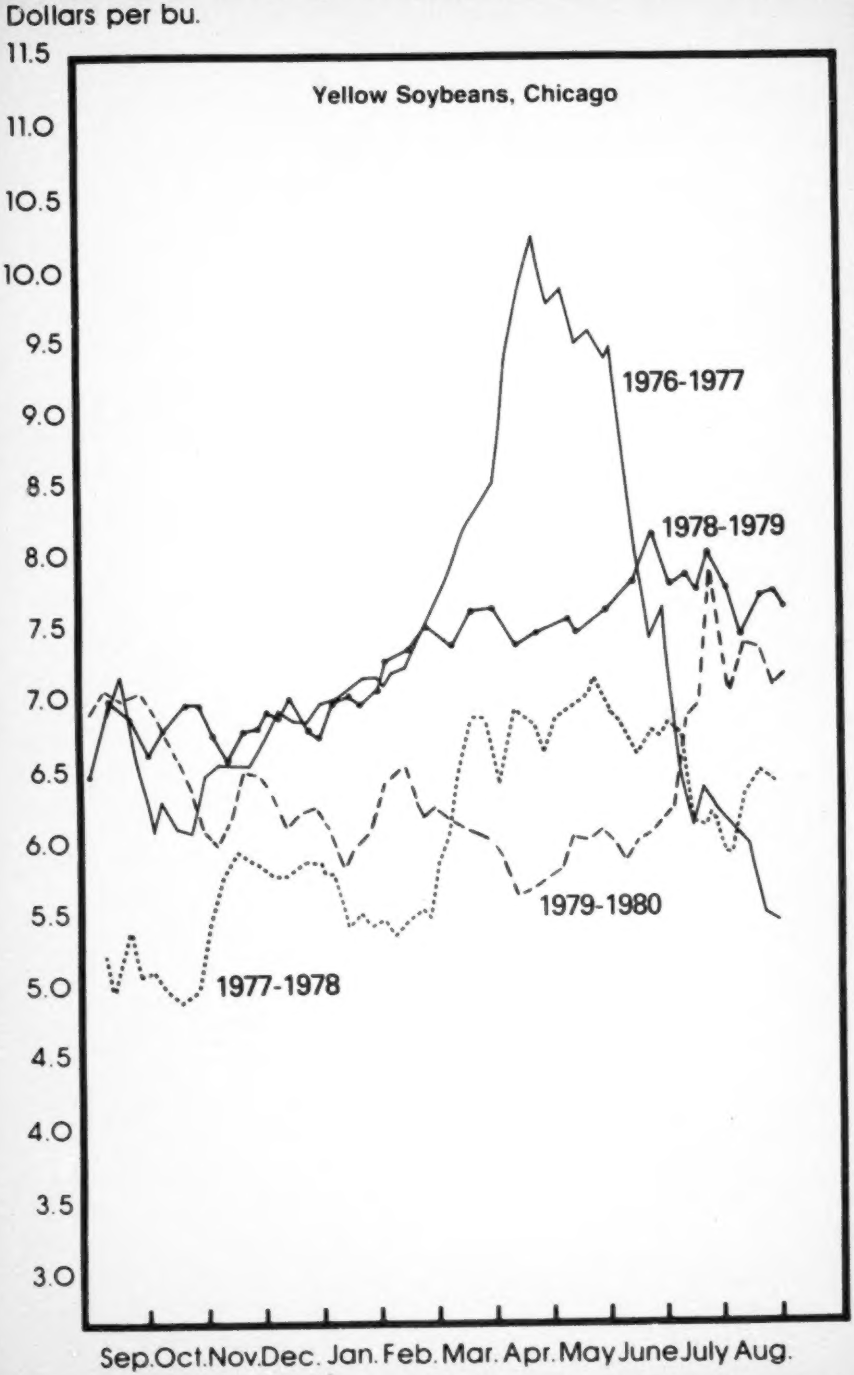

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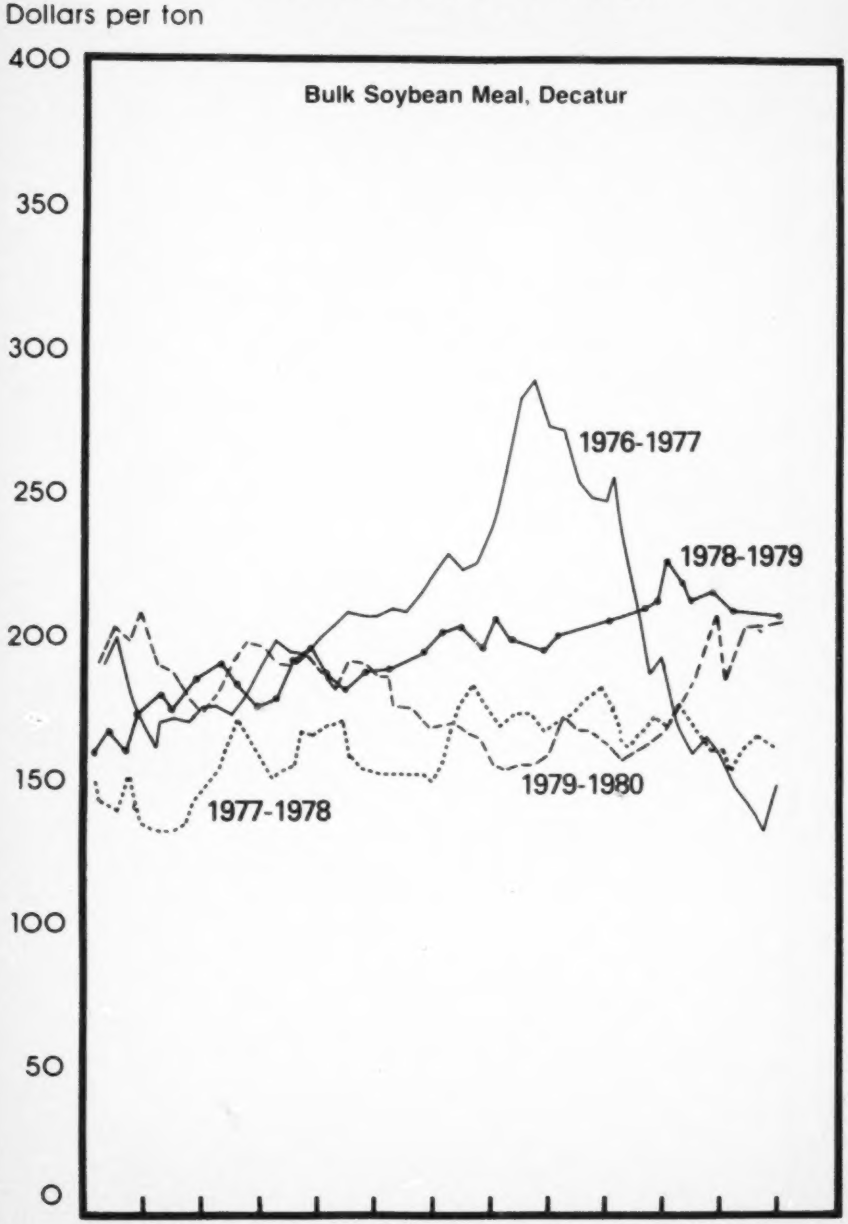
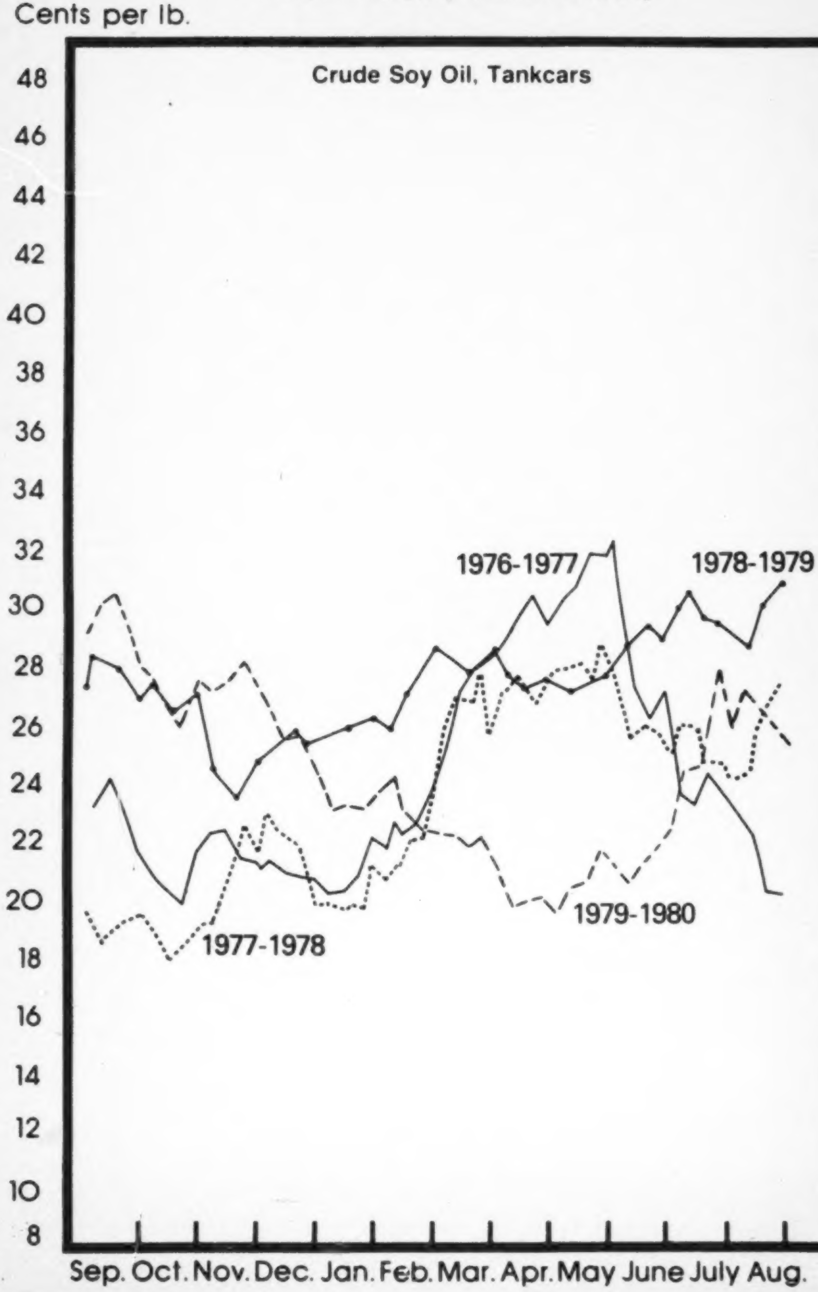


PRICE TRENDS (WEEKLY CLOSE)



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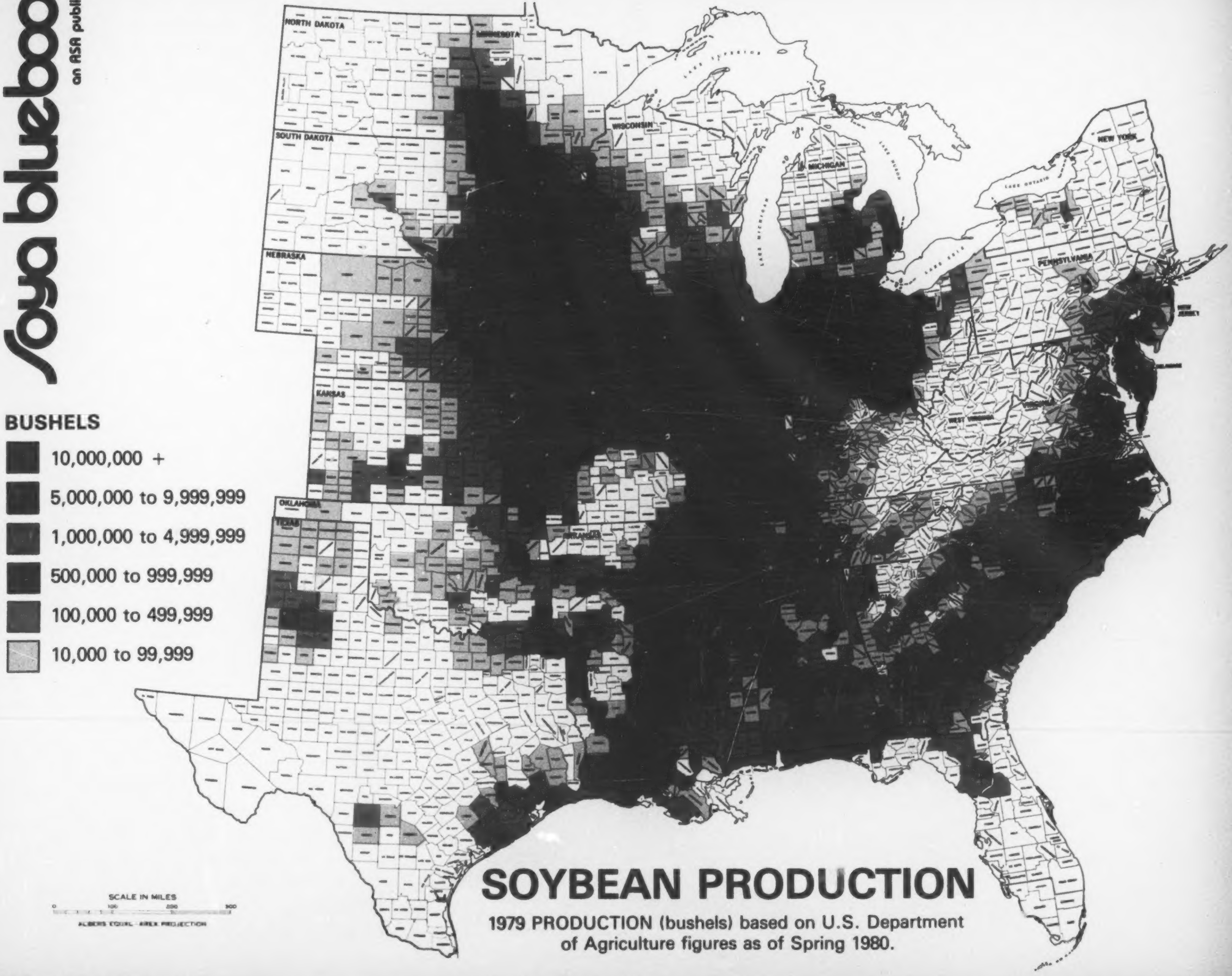
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SOUTH DAKOTA
WISCONSIN
MICHIGAN
LAKE SUPERIOR
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LAKE ONTARIO
NEW YORK
PENNSYLVANIA
NEW JERSEY
NEBRASKA
KANSAS
OKLAHOMA
TEXAS
ARKANSAS
WEST VIRGINIA
VIRGINIA
BUSHELS
10,000,000 +
5,000,000 to 9,999,999
1,000,000 to 4,999,999
500,000 to 999,999
100,000 to 499,999
10,000 to 99,999
SCALE IN MILES
0
100
200
300
ALBERS EQUAL - AREA PROJECTION

SOYBEAN PRODUCTION

1979 PRODUCTION (bushels) based on U.S. Department of Agriculture figures as of Spring 1980.

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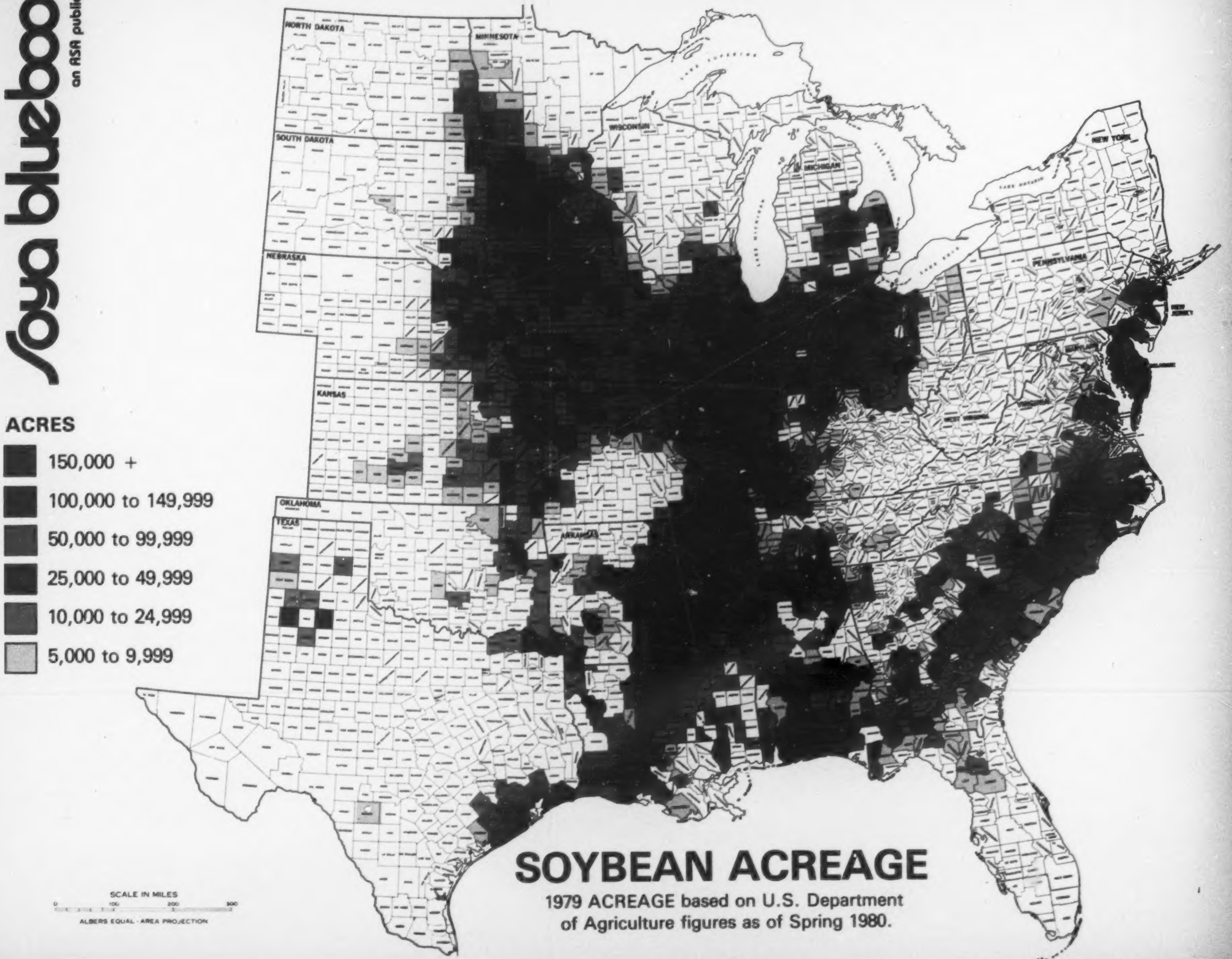
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NEW JERSEY
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KANSAS
VIRGINIA
WEST VIRGINIA
OKLAHOMA
TEXAS
ARKANSAS
LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
LAKE ERIE
LAKE ONTARIO
SCALE IN MILES
0
100
200
300
ALBERS EQUAL-AREA PROJECTION

SOYBEAN ACREAGE

1979 ACREAGE based on U.S. Department of Agriculture figures as of Spring 1980.

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CANADIAN SOYBEAN PRODUCTION

Estimated Acreage,Production,Farm Price and Value

1950-1980

Crop Year[1]	Seeded acreage (acres)	Avg. yield per seeded acre (bu.)	Production (Th.bu.)	Avg. farm price $ per (bu.)	Total farm value (Th. $)
1950-51	142,000	23.4	3,323	2.55	8,474
1955-56	214,000	26.4	5,650	2.09	11,808
1960-61	226,500	22.1	5,001	2.03	11,521
1961-62	212,000	31.3	6,631	2.25	14,920
1962-63	221,000	29.9	6,608	2.48	16,388
1963-64	228,000	21.9	5,002	2.80	14,006
1964-65	231,000	30.2	6,976	2.87	20,021
1965-66	265,000	30.3	8,030	2.70	21,681
1966-67	279,000	32.3	9,012	3.00	27,036
1967-68	290,000	27.9	8,091	2.68	21,684
1968-69	295,000	30.6	9,027	2.42	21,845
1969-70	322,000	23.8	7,664	2.61	20,003
1970-71	335,000	31.0	10,398	2.78	28,906
1971-72	367,000	28.0	10,276	3.17	32,575
1972-73	405,000	34.0	13,770	5.73	78,902
1973-74	470,000	31.0	14,570	6.17	89,897
1974-75	415,000	24.8	10,290	6.08	62,563
1975-76	390,000	34.6	13,478	4.92	66,312
1976-77	377,800	24.5	9,250	7.30	67,525
1977-78	550,000	38.7	21,311	—	—
1978-79	750,000	25.3	18,944	—	—
1979-80	700,000	33.0	24,680	—	—
1980-81[2]	749,000	—	25,721	—	—

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[1] Most of the crop is grown in Ontario, but there were also small acreages in other provinces in the years 1942-43 to 1945-46. The totals for Canada include this production. [2] Preliminary. Source: Compiled from records of the Dominion Bureau of Statistics, U.S. Department of Agriculture; Foreign Agricultural Service, Oilseeds and Products.

CANADIAN SOYBEAN PRODUCTION AND UTILIZATION

1950-80

Year beg. Aug. 1	Production (Th.bu.)	Imports (Th.bu.)	Supplies (Th.bu.)	Exports of beans (Th.bu.)	Processed for oil and meal (Th.bu.)	Soy oil produced (Th.bu.)	Soybean oilcake produced (Short tons)
1950	3,323	4,723	8,046	—	7,393	72,676	176,343
1955	5,650	8,309	13,959	1,492	11,799	124,171	279,095
1960	5,001	12,345	17,346	1,381	16,279	173,837	380,558
1961	6,631	13,329	19,960	3,671	16,916	176,821	396,067
1962	6,608	14,711	21,319	2,445	17,862	183,592	418,526
1963	5,002	15,656	20,658	1,614	18,606	192,655	441,526
1964	6,976	16,457	23,433	3,179	19,541	201,057	464,888
1965	8,030	17,058	25,088	2,152	20,654	205,296	491,440
1966	9,012	16,295	25,307	3,599	19,876	201,522	474,365
1967	8,091	13,328	21,417	1,571	19,846	198,999	472,321
1968	9,027	12,469	21,496	1,123	20,064	204,027	476,328
1969	7,679	17,430	25,109	1,111	23,679	240,564	558,743
1970	10,398	15,703	26,101	768	23,443	242,506	548,945
1971	10,276	14,774	25,050	1,366	23,314	241,258	544,351
1972	13,770	10,973	24,743	1,064	22,507	218,531	532,382
1973	14,570	12,506	27,076	1,061	23,601	240,675	554,866
1974	10,290	12,650	22,940	349	23,336	238,856	550,250
1975	13,478[2]	12,975	26,453	821	26,566	270,492	627,724
1976	9,250[3]	6,229	15,479	2,583	25,169	254,888	589,002
1977	21,311	9,643	30,954	2,358	26,749	272,488	624,563
1978	18,944	9,893[4]	28,837	2,765	27,301	284,396	636,027
1979	24,680	—	—	—	31,600	346,126	813,497
1980[1]	25,721	—	—	—	32,151	357,149	822,316

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[1] Preliminary. [2] August-June. [3] January-June. [4] August-May.

Source: Compiled from records of the Dominion Bureau of Statistics. U.S.Department of Agriculture, Foreign Agricultural Service,Oilseeds and Products Division.

U.S. SOYBEAN ACREAGE, YIELD AND PRODUCTION BY STATE

Acres Planted, Soybeans Grown Alone (Thousand Acres)

	1940	1950	1960	1970	1975	1976	1977	1978	1979	1980
Alabama	275	150	158	642	1300	1200	1650	1900	2200	2250
Arkansas	205	646	2472	4393	4750	4360	4650	4750	5200	4800
Delaware	48	74	182	165	228	208	230	265	280	265
Florida-not est. prior to 1949	—	9	35	188	291	259	334	420	460	475
Georgia	100	78	106	550	1190	890	1250	1750	2150	2450
Illinois	3011	4108	5013	6848	8350	7600	8900	9300	9800	9300
Indiana	1418	1765	2458	3300	3650	3300	3900	4200	4500	4400
Iowa	1481	1960	2615	5709	7000	6470	7250	7600	8200	8300
Kansas	78	409	594	1074	1100	900	1020	1520	1580	1550
Kentucky	180	202	260	582	1150	1100	1400	1400	1720	1650
Louisiana	110	89	258	1730	2000	2280	2750	3100	3400	3450
Maryland	65	95	228	216	335	300	330	385	410	400
Michigan	187	122	229	539	615	570	730	910	1020	960
Minnesota	251	1200	2118	3140	3700	3050	3850	4100	5150	4800
Mississippi	332	504	983	2358	3230	3335	3750	3900	4200	4000
Missouri	564	1225	2387	3546	4450	4300	4730	5500	5900	5700
Nebraska	20	50	165	824	1220	995	1150	1270	1630	1830
New Jersey	31	37	42	52	104	140	185	195	205	200
New York	21	9	6	6	11	12	21	25	26	20
North Carolina	360	410	646	981	1500	1200	1450	1750	2000	2030
North Dakota-not est. prior to 1944	—	44	182	184	180	150	180	175	210	210
Ohio	1020	1136	1514	2434	3120	2900	3400	3900	4100	3800
Oklahoma	18	35	130	200	245	260	360	370	390	350
Pennsylvania	82	48	26	30	54	52	70	83	101	112
South Carolina	32	94	535	1550	1420	1230	1350	1510	1700	1700
South Dakota	4	72	102	253	345	280	320	400	700	780
Tennessee	167	248	478	1281	1950	1920	2320	2530	2700	2650
Texas	21	10	10	170	395	375	800	800	860	700
Virginia	128	202	334	372	451	410	450	480	540	620
Wisconsin	215	77	102	155	216	160	200	220	300	335

Acres Harvested for Beans (Thousand Acres)

	1940	1950	1960	1970	1975	1976	1977	1978	1979	1980
Alabama	11	73	135	600	1260	1170	1600	1850	2150	2100
Arkansas	63	581	2442	4400	4700	4320	4600	4700	5150	4350
Delaware	25	63	177	156	225	205	225	260	275	260
Florida	—	7	33	184	281	253	327	410	453	460
Georgia	13	26	75	475	1160	870	1090	1680	2100	2140
Illinois	1995	3989	4973	6800	8320	7560	8850	9240	9720	9250
Indiana	723	1652	2415	3278	3630	3280	3900	4180	4420	4380
Iowa	709	1930	2599	5680	6970	6450	7080	7550	8170	8270
Kansas	26	397	586	930	1080	865	990	1490	1560	1450
Kentucky	31	126	199	530	1100	1070	1320	1360	1660	1600
Louisiana	15	37	216	1688	1920	2250	2680	3040	3350	3350
Maryland	19	67	215	213	330	295	325	380	405	390
Michigan	77	114	221	500	610	565	720	900	1010	950
Minnesota	53	1148	2090	3030	3650	3020	3770	4060	5080	4760
Mississippi	39	358	916	2580	3120	3250	3650	3800	4100	3850
Missouri	109	1209	2344	3465	4370	4200	4650	5440	5830	5530
Nebraska	4	50	164	812	1200	980	1130	1250	1610	1770
New Jersey	5	20	33	54	102	138	177	191	203	194
New York	14	7	3	6	11	12	19	24	25	19
North Carolina	190	297	545	867	1420	1120	1320	1680	1950	1930
North Dakota	—	41	176	181	149	147	175	173	206	200
Ohio	561	1090	1499	2550	3100	2880	3380	3870	4080	3760
Oklahoma	2	23	121	185	237	250	340	340	380	300
Pennsylvania	14	24	7	28	52	50	67	80	98	103
South Carolina	11	62	494	1010	1380	1190	1300	1470	1660	1600
South Dakota	1	70	100	247	342	271	315	390	685	770
Tennessee	19	168	394	1150	1850	1800	2200	2420	2620	2550
Texas	3	—	75	158	370	347	760	745	805	630
Virginia	49	152	311	339	433	398	440	475	536	610
Wisconsin	25	33	97	153	207	152	192	215	295	330

Average Yield per Acre Harvested for Beans (Bushels)

	1940	1950	1960	1970	1975	1976	1977	1978	1979	1980
Alabama	6.5	19.0	24.0	23.0	24.5	24.0	21.0	21.0	25.0	15.0
Arkansas	12.0	21.5	21.0	22.5	25.0	19.0	23.0	24.5	28.0	16.0
Delaware	12.0	14.0	24.0	21.0	25.0	24.0	24.0	29.0	30.0	20.0
Florida	—	19.0	26.0	28.0	24.0	26.0	25.0	25.0	29.0	22.0
Georgia	7.0	11.0	17.0	23.0	25.5	23.5	20.0	17.5	28.0	12.0
Illinois	17.5	24.0	26.0	31.0	36.0	33.0	38.0	33.5	39.5	33.5
Indiana	13.0	22.5	27.0	31.0	33.5	34.0	37.0	34.5	36.0	36.0
Iowa	20.0	22.0	25.5	32.5	34.0	31.0	35.5	37.5	37.5	39.0
Kansas	12.0	18.0	21.5	15.0	21.0	15.0	28.5	18.0	26.5	16.5
Kentucky	13.0	17.5	22.0	27.0	27.0	27.0	31.0	30.0	32.5	23.0
Louisiana	13.5	18.0	24.0	24.0	25.0	28.0	23.5	25.0	28.0	21.0
Maryland	13.5	17.0	26.0	24.0	28.0	25.0	27.0	32.0	30.0	24.0
Michigan	16.5	20.0	20.0	26.5	26.0	20.5	30.0	24.0	30.0	32.0
Minnesota	15.0	15.5	19.5	26.0	27.0	22.0	35.5	36.0	32.0	32.0
Mississippi	10.0	25.0	22.0	22.5	22.5	22.0	21.5	21.5	29.0	16.0
Missouri	13.0	23.0	21.5	25.5	26.0	20.0	32.0	28.5	31.5	25.0
Nebraska	14.0	24.0	28.0	22.0	27.0	20.0	36.0	34.0	34.0	30.0
New Jersey	14.5	20.5	24.5	25.0	26.0	24.0	24.0	31.0	30.0	18.0
New York	13.0	18.0	17.0	20.0	27.0	26.0	23.0	23.0	26.0	24.0
North Carolina	12.0	16.0	22.5	24.0	23.5	22.0	22.0	24.0	23.5	18.5
North Dakota	—	10.5	13.0	15.0	19.5	12.5	20.0	27.5	27.0	17.5
Ohio	16.0	22.5	24.5	28.5	33.0	33.0	35.5	33.5	35.5	36.0
Oklahoma	7.5	17.0	20.0	18.0	22.0	22.0	23.0	15.0	23.0	10.0
Pennsylvania	16.0	17.5	23.0	32.0	28.0	29.0	31.0	31.5	32.0	24.5
South Carolina	6.5	12.0	19.0	20.0	22.0	18.0	20.5	22.0	24.0	14.0
South Dakota	12.0	12.5	17.0	17.5	25.0	17.0	30.5	30.5	33.0	26.0
Tennessee	8.5	21.0	22.5	23.0	25.0	22.5	23.5	23.5	27.0	19.0
Texas	9.5	—	27.0	28.0	25.0	26.0	26.5	26.5	26.0	22.0
Virginia	15.5	19.0	22.5	20.0	25.0	20.5	19.0	28.0	28.5	15.0
Wisconsin	17.5	15.0	17.0	24.0	25.5	22.0	35.0	32.0	34.0	33.0

Total Production of Beans (Thousand Bushels)

	1940	1950	1960	1970	1975	1976	1977	1978	1979	1980
Alabama	72	1387	3240	13800	30870	28080	33600	38850	53750	31500
Arkansas	756	12492	51282	99000	117500	82080	105800	115150	144200	69600
Delaware	300	82	4248	3276	5625	4920	5400	7540	8250	5200
Florida	—	133	858	5152	6744	6578	8175	10250	13137	10120
Georgia	91	286	1275	10925	29580	20445	21800	29400	58800	25680
Illinois	34912	95736	129298	210800	299520	249480	336300	309540	379080	309875
Indiana	9339	37170	65205	101618	121605	111520	144300	144210	159120	157680
Iowa	14180	424600	66274	184600	236980	199950	251340	283125	306375	322530
Kansas	312	7146	12599	13950	22680	12975	28215	26820	41340	23925
Kentucky	403	2205	4378	14310	29700	28890	40920	40800	53950	36800
Louisiana	202	666	5184	40512	48000	63000	62980	76000	93800	70350
Maryland	256	1139	5590	5112	9240	7375	8775	12160	12150	9360
Michigan	1270	2280	4420	13250	15860	11583	21600	21600	30300	30400
Minnesota	795	17794	40755	78780	98550	66440	133835	146160	162560	152320
Mississippi	390	8950	20152	58050	70200	71500	78475	81700	118900	61600
Missouri	1417	27807	50396	88358	113620	84000	148800	155040	183645	138250
Nebraska	56	1200	4592	17864	32400	19600	40680	42500	54740	53100
New Jersey	72	410	808	1350	2652	3312	4248	5821	6090	3492
New York	182	126	51	120	297	312	437	552	650	456
North Carolina	2280	4752	12262	20808	33370	24640	29040	40320	45825	35705
North Dakota	—	430	2288	2715	2906	1838	3500	4758	5562	3500
Ohio	8976	24525	36726	72675	102300	95040	119990	127710	144840	135360
Oklahoma	15	391	2420	3330	5214	5500	7820	5100	8280	3000
Pennsylvania	224	420	161	896	1456	1450	2077	2520	3136	2524
South Carolina	72	744	9386	20200	30360	21420	26650	32340	39840	22400
South Dakota	12	875	1700	4323	8650	4607	9608	11895	22605	20020
Tennessee	162	3528	8865	26450	46250	40500	52170	56870	70740	48450
Texas	28	—	2025	4424	9250	9022	20140	19743	20830	13860
Virginia	760	2888	6898	6780	10825	8359	8360	13300	15276	9150
Wisconsin	438	495	1649	3672	5279	3344	6720	6880	10030	10890

Source: CROP PRODUCTION SUMMARY; Economics and Statistics Service, U.S.Department of Agriculture.

U.S. SOYBEAN PRODUCTION AND FARM DISPOSITION

1950-80 (In 1,000 Bushels)

Crop	Production	Disposition on farms where grown Used where produced	Sold from farms
1950	299,249	15,040	284,209
1955	373,682	16,899	356,783
1960	555,085	19,847	535,238
1961	678,554	20,635	657,919
1962	669,186	20,829	648,357
1963	699,165	21,015	678,150
1964	700,921	22,072	678,849
1965	845,608	22,825	822,786
1966	928,481	24,271	904,210
1967	976,439	24,013	952,426
1968	1,106,958	22,174	1,084,784
1969	1,133,129	21,145	1,111,975
1970	1,127,100	20,485	1,106,615
1971	1,175,989	21,904	1,154,085
1972	1,270,630	23,944	1,246,686
1973	1,547,165	24,089	1,523,076
1974	1,214,802	25,304	1,189,498
1975	1,547,383	21,055	1,526,328
1976	1,287,560	23,893	1,263,667
1977	1,761,755	25,427	1,736,328
1978	1,870,181	26,078	1,844,103
1979	2,267,901	26,543	2,241,358
1980[1]	1,817,097	24,595	1,792,502

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[1] Preliminary. Disposition of a given year's production regardless of time of actual disposition. Estimates of farm disposition represent portions of the crop used or to be used for the designated purposes on farms where produced and do not include purchases by farmers from others for such purposes.

Source: Crop Reporting Board, Economics and Statistics Service, U.S. Department of Agriculture.

U.S. FARM MARKETINGS OF SOYBEANS

Percent of Open Market Farm Sales, by Month, 1970/71-79/80

	Crop Marketing Season									
Month	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80
September	4.4%	4.9%	3.3%	3.1%	3.7%	4.7%	8.3%	3.5%	6.9%	5.0%
October	23.3	24.8	23.0	19.0	24.0	20.1	22.4	18.4	25.1	21.7
November	22.8	18.5	14.9	15.5	15.9	13.9	15.4	11.7	10.5	11.4
December	8.6	6.2	12.5	7.2	7.0	6.8	7.7	8.1	6.2	7.3
January	8.3	9.7	20.3	13.8	9.6	10.7	12.3	9.1	11.3	10.4
February	6.1	7.9	8.6	9.0	5.2	7.1	9.8	8.4	10.2	7.3
March	5.4	8.8	6.5	7.0	6.0	6.9	8.7	13.1	6.7	6.6
April	3.0	4.9	3.3	4.7	5.0	6.1	7.2	7.7	4.5	5.3
May	5.3	4.6	2.8	5.4	5.6	7.0	3.4	7.1	4.4	6.4
June	5.9	3.7	2.1	5.6	6.5	6.1	1.9	4.4	6.9	6.4
July	4.3	3.8	1.5	6.3	6.7	5.6	1.2	4.0	3.5	6.9
August	2.6	2.2	1.2	3.4	4.8	5.0	1.7	4.5	3.8	5.3
Year	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Source: Crop Reporting Board, Economics and Statistics Service, U.S. Department of Agriculture.

U.S. SOYBEAN CROP VALUE

Soybeans for Beans: Value of Production, U.S. and Specified States 1925-80 (In 1,000 Dollars)

Year	U.S.	Illinois	Iowa	Indiana	Ohio	Missouri	Minnesota	Arkansas
1925	11,430	3,077	260	872	571	905	—	69
1930	19,058	8,225	1,350	2,495	651	1,584	—	184
1935	35,565	18,983	4,510	4,879	1,771	1,140	76	604
1940	70,224	29,675	12,478	8,929	8,168	1,601	779	832
1945	402,234	156,416	73,143	58,889	39,935	19,843	13,860	6,822
1950	737,760	238,383	112,094	89,208	62,539	64,790	42,785	28,357
1955	830,909	227,956	101,293	99,951	66,640	71,155	98,412	44,469
1956	980,299	295,466	108,500	112,584	68,693	78,303	111,910	58,942
1957	1,002,641	266,904	156,474	111,320	67,813	76,503	109,608	63,528
1958	1,160,112	292,207	160,505	120,731	75,051	109,755	106,791	93,530
1959	1,046,468	250,639	119,906	117,992	71,659	97,383	80,709	106,928
1960	1,184,910	288,335	141,164	140,843	80,063	102,304	87,623	109,231
1961	1,543,909	366,556	221,256	168,903	108,486	142,381	121,147	114,812
1962	1,564,352	378,153	218,177	176,670	102,287	141,996	100,433	143,283
1963	1,755,076	414,444	266,053	183,192	103,741	159,000	141,513	145,145
1964	1,836,441	385,615	311,584	176,836	109,225	144,986	148,304	175,854
1965	2,151,305	467,141	329,121	199,362	129,702	192,762	155,213	195,392
1966	2,553,407	447,536	397,931	202,664	165,578	229,886	215,858	233,186
1967	2,432,564	471,286	360,662	176,082	126,499	186,006	174,360	228,450
1968	2,679,210	520,512	434,203	249,293	166,603	246,154	172,072	215,507
1969	2,647,499	536,583	424,446	246,422	160,423	190,008	178,143	228,027
1970	3,204,650	611,320	520,572	289,611	195,389	250,937	229,126	279,484
1971	3,559,708	729,086	548,763	330,980	247,438	292,978	196,935	277,350
1972	5,550,459	1,159,697	1,023,840	462,383	344,585	466,092	413,574	334,530
1973	8,724,231	1,642,709	1,477,300	763,513	507,088	710,640	693,840	338,800
1974	8,069,585	1,314,614	1,266,149	685,613	536,718	611,654	525,840	568,632
1975	7,617,984	1,530,547	1,206,228	605,593	511,500	549,921	494,721	551,075
1976	8,768,979	1,758,834	1,409,648	747,184	664,330	558,600	479,637	533,520
1977	10,351,545	2,021,163	1,487,933	806,637	698,342	854,112	789,627	650,670
1978	12,458,598	2,078,089	1,930,082	963,323	852,994	1,056,284	952,963	773,808
1979	14,250,214	2,448,857	1,890,334	1,005,638	916,837	1,142,272	975,360	928,648
1980*	13,824,943	2,386,038	2,402,849	1,214,136	1,035,504	1,057,613	1,081,472	560,280

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*Preliminary.

Source: Crop Reporting Board, Economics and Statistics Service, U.S. Department of Agriculture.

PRICES OF U.S. SOYBEANS: NO. 1 YELLOW

Average Price Per Bushel, Illinois Country Shipping Points
By Months 1950-80 (In Dollars)

Year[1]	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
1950	2.45	2.30	2.72	2.95	3.10	3.25	3.25	3.25	3.24	3.04	2.94	2.87	2.95
1955	2.24	2.22	2.19	2.27	2.35	2.45	2.56	2.85	3.10	2.97	2.54	2.40	2.51
1960	2.07	2.04	2.05	2.15	2.39	2.66	2.88	3.14	3.06	2.73	2.59	2.63	2.53
1961	2.27	2.33	2.38	2.40	2.40	2.40	2.44	2.48	2.47	2.44	2.44	2.42	2.41
1962	2.28	2.37	2.42	2.45	2.55	2.59	2.58	2.55	2.56	2.57	2.56	2.56	2.50
1963	2.58	2.68	2.72	2.71	2.71	2.65	2.63	2.53	2.47	2.44	2.43	2.48	2.59
1964	2.61	2.67	2.74	2.83	2.87	2.95	2.94	2.97	2.81	2.89	2.79	2.63	2.81
1965	2.61	2.38	2.49	2.62	2.77	2.84	2.82	2.92	3.03	3.30	3.49	3.63	2.91
1966	3.13	2.88	2.89	2.95	2.88	2.84	2.82	2.80	2.80	2.82	2.74	2.72	2.86
1967	2.62	2.51	2.50	2.57	2.62	2.64	2.64	2.64	2.65	2.64	2.64	2.62	2.61
1968	2.50	2.32	2.45	2.52	2.55	2.55	2.56	2.60	2.64	2.61	2.64	2.60	2.54
1969	2.41	2.30	2.36	2.41	2.47	2.46	2.47	2.58	2.65	2.73	2.80	2.75	2.53
1970	2.75	2.90	2.97	2.88	2.99	3.01	3.00	2.91	2.99	3.12	3.30	3.23	3.00
1971	3.01	3.01	2.98	3.06	3.05	3.14	3.35	3.47	3.47	3.44	3.48	3.45	3.24
1972	3.42	3.61	3.64	4.07	4.46	5.80	6.15	6.52	8.94	10.84	8.47	9.00	6.22
1973	6.10	5.62	5.57	5.92	6.19	6.35	6.29	5.59	5.47	5.51	7.11	7.76	6.12
1974	7.64	8.30	7.54	7.23	6.38	5.69	5.60	5.55	5.19	5.16	5.60	6.02	6.32
1975	5.57	5.01	4.71	4.58	4.64	4.75	4.72	4.75	5.23	6.23	6.66	6.31	5.26
1976	6.59	6.22	6.55	6.86	7.06	7.26	8.25	9.60	9.42	8.25	6.40	5.49	7.33
1977	5.16	5.07	5.84	5.94	5.73	5.65	6.58	6.81	7.01	6.76	6.62	6.47	6.14
1978	6.42	6.72	6.68	6.81	6.89	7.28	7.45	7.27	7.21	7.70	7.64	7.28	7.11
1979	7.04	6.56	6.52	6.53	6.36	6.42	6.07	5.80	6.04	6.10	7.22	7.45	6.51
1980	8.13	8.27	8.91	7.73	7.57	7.34							

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[1] Year begins in September. Note: Beginning September 1953, price quotations are for No.1 and No.2 yellow soybeans when the degrading factors were test weight and/or splits only.

Source: Economics and Statistics Service, U.S.Department of Agriculture.

PRICES OF U.S. SOYBEANS: Received by Farmers

Average Price Per Bushel, By Months 1950-80[1] (In Dollars)

Year[2]	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average[3]
1950	2.26	2.03	2.54	2.70	2.90	3.08	3.10	3.12	3.13	2.98	2.86	2.71	2.47
1955	2.00	2.08	2.06	2.11	2.19	2.25	2.38	2.63	2.98	2.87	2.47	2.33	2.22
1960	1.97	1.94	1.96	1.99	2.23	2.48	2.68	3.02	2.96	2.60	2.48	2.49	2.13
1961	2.24	2.20	2.27	2.30	2.32	2.32	2.34	2.38	2.36	2.34	2.35	2.33	2.28
1962	2.25	2.23	2.30	2.35	2.41	2.50	2.51	2.45	2.47	2.48	2.44	2.45	2.34
1963	2.44	2.56	2.66	2.58	2.65	2.57	2.55	2.45	2.36	2.35	2.34	2.35	2.51
1964	2.51	2.55	2.57	2.71	2.73	2.81	2.85	2.85	2.72	2.74	2.69	2.53	2.62
1965	2.35	2.31	2.36	2.48	2.67	2.77	2.71	2.78	2.90	3.04	3.37	3.49	2.54
1966	2.97	2.78	2.80	2.82	2.77	2.71	2.74	2.71	2.69	2.71	2.66	2.56	2.75
1967	2.53	2.44	2.43	2.48	2.53	2.57	2.57	2.56	2.58	2.54	2.52	2.51	2.49
1968	2.40	2.32	2.40	2.42	2.46	2.48	2.48	2.51	2.56	2.52	2.52	2.51	2.43
1969	2.28	2.23	2.30	2.30	2.36	2.40	2.42	2.48	2.52	2.60	2.72	2.65	2.35
1970	2.66	2.67	2.86	2.77	2.86	2.92	2.91	2.80	2.85	2.98	3.18	3.09	2.85
1971	2.95	2.96	2.84	2.93	2.92	3.00	3.20	3.37	3.35	3.32	3.34	3.36	3.03
1972	3.26	3.13	3.38	3.95	4.10	5.49	6.05	6.14	8.27	10.00	6.69	8.99	4.37
1973	5.81	5.63	5.14	5.65	5.87	6.07	5.96	5.15	5.21	5.13	6.10	7.55	5.68
1974	7.32	8.17	7.44	7.03	6.30	5.72	5.31	5.60	5.00	4.90	5.28	5.80	6.64
1975	5.32	4.92	4.45	4.28	4.46	4.50	4.46	4.52	4.87	6.16	6.73	6.07	4.92
1976	6.65	5.90	6.11	6.56	6.81	7.06	7.83	9.05	9.24	8.13	6.52	5.48	6.81
1977	5.17	5.28	5.61	5.68	5.75	5.53	6.20	6.49	6.77	6.69	6.40	6.21	5.79
1978	6.20	6.26	6.41	6.49	6.58	6.99	7.16	7.06	7.06	7.36	7.36	7.07	6.83
1979	6.81	6.35	6.30	6.27	6.39	6.20	5.92	5.63	5.76	5.76	6.75	7.18	6.25
1980	7.59	7.68	8.18	7.88									

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[1] Monthly prices computed by weighting state prices by estimated sales for the month. [2] Year begins in September. [3] Includes allowance for unredeemed loans and purchase agreement deliveries by states. Source: FATS & OILS OUTLOOK AND SITUATION; Economics and Statistics Service, U.S.Department of Agriculture.

WORLD FATS & OILS PRODUCTION

CALCULATED PRODUCTION [1]1972-74; [2]1975-81 (IN 1,000 METRIC TONS)

	1972	1973	1974	[3]1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	
									[4]Dec.	[5]Jan.
EDIBLE VEG. OILS										
COTTONSEED	2,929	3,111	3,168	2,767	2,812	3,169	2,988	3,196	3,154	3,183
PEANUT	3,535	2,921	3,091	3,594	3,192	3,147	3,380	3,161	3,250	3,238
SOYBEAN	6,846	7,588	9,542	10,168	8,838	10,834	11,681	14,340	12,240	12,364
SUNFLOWER	3,638	3,548	4,521	3,669	3,737	4,724	4,663	5,529	4,636	4,575
RAPESEED	2,596	2,493	2,475	2,964	2,485	2,699	3,662	3,465	3,772	3,772
SESAME	656	612	635	630	598	624	658	637	709	709
SAFFLOWER	300	239	210	329	217	264	324	346	260	260
OLIVE 1972-74[6]	1,559	1,437	1,526	1,806	1,334	1,620	1,554	1,383	1,875	1,789
CORN	292	309	311	408	410	436	445	470	460	470
TOTAL	22,351	22,258	25,479	26,335	23,623	27,517	29,355	32,527	30,356	30,360
PALM OILS 1972-74[7]										
COCONUT	2,878	2,444	2,235	3,393	3,118	3,166	2,819	3,012	3,234	3,231
PALM KERNEL	457	434	488	503	546	568	629	650	677	677
PALM	2,146	2,230	2,610	3,050	3,371	3,591	4,085	4,392	4,682	4,682
BABASSU	107	105	105	122	132	143	151	150	150	150
TOTAL	5,588	5,213	5,438	7,068	7,167	7,468	7,684	8,204	8,743	8,740
INDUSTRIAL OILS										
LINSEED	860	720	755	737	684	907	745	816	722	723
CASTOR	320	404	493	301	287	337	386	388	374	374
OITICICA	14	1	11	15	14	14	14	14	14	14
TUNG	136	110	96	111	100	95	101	100	90	90
OLIVE RES. 1972-74[8]	132	139	146	186	153	171	142	144	154	169
TOTAL	1,462	1,374	1,501	1,350	1,238	1,524	1,388	1,462	1,354	1,370
ANIMAL FATS										
BUTTER (fat con.)	4,389	4,533	4,502	4,800	4,944	4,930	4,950	4,957	4,957	4,957
LARD	4,259	4,134	4,379	3,380	3,571	3,703	3,876	4,012	3,956	3,956
TALLOW GREASE	4,584	4,428	5,121	5,471	5,815	5,800	5,600	5,550	5,550	5,550
TOTAL	13,232	13,095	14,002	13,651	14,330	14,433	14,426	14,519	14,463	14,463
MARINE OILS										
WHALE	65	55	40	15	15	8	10	10	10	10
SPERM WHALE	125	125	120	82	64	58	58	58	58	58
FISH (inc.liver)	934	809	1,001	983	1,004	1,216	1,268	1,135	1,150	1,145
TOTAL	1,124	989	1,161	1,080	1,083	1,282	1,336	1,203	1,218	1,213
WORLD TOTAL	43,757	42,929	47,581	49,484	47,441	52,224	54,189	57,915	56,134	56,146

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[1] Years indicated are those in which most of given oil was produced. Includes oil equivalent of seed production. [2] Split year includes northern hemisphere crops harvested in the late months of the first year shown combined with southern hemisphere and certain northern hemisphere crops harvested in the early months of the following year. [3] Oilseed meal and oil production calculated from assumed extraction rates applied to that portion of each crop available for crushing and/or export represents potential not actual production. [4] Estimated. [5] Forecast. [6] Excludes olive residue oil. [7] Estimated on basis of exports and other information. [8] Includes quantities of refined oil for edible purposes. Source: FOREIGN AG CIRCULAR (Jan), Commodity Programs, Foreign Agricultural Service, U.S. Department of Agriculture.

WORLD SOYBEAN PRODUCTION

AREA AND PRODUCTION IN SPECIFIED COUNTRIES AND THE WORLD 1975/76-1980/81[1]

Continent and Country	Area[2]						Production					
	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81[3]	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81[3]
	(In 1,000 hectares)						(In 1,000 metric tons)					
NORTH AMERICA:												
Canada	158	153	223	285	283	283	367	251	580	516	671	713
Mexico	312	170	300	215	380	150	625	280	470	330	680	280
United States[4]	21,683	19,975	23,315	25,764	28,557	27,461	42,113	35,042	47,947	50,859	61,722	49,453
SOUTH AMERICA:												
Argentina	434	660	1,250	1,600	1,780	1,860	695	1,400	2,700	3,700	3,500	3,900
Bolivia	12	7	19	26	35	35	15	16	18	38	44	52
Brazil	6,290	7,070	7,778	8,255	8,762	8,975	10,810	12,513	9,534	10,326	15,040	15,400
Chile	2	1	1	1	1	1	2	1	1	2	1	1
Colombia	38	57	69	69	71	79	75	103	131	137	146	156
Ecuador	11	15	17	21	25	28	14	19	23	30	40	40
Paraguay[5]	173	229	272	365	435	520	284	377	333	450	600	700
Peru	3	3	3	4	9	10	3	3	4	7	13	15
Uruguay	8	11	22	35	35	35	9	12	30	35	45	45
AFRICA:												
Egypt	4	7	14	34	42	42	5	11	27	79	106	106
Nigeria[6]	4	5	5	5	5	8	1	3	3	3	3	5
South Africa[5,7]	22	25	25	26	28	33	18	28	37	28	39	50
EUROPE:												
Bulgaria	36	56	69	99	96	100	80	99	90	120	152	140
France	2	1	3	3	4	17	2	2	4	4	16	20
Hungary	25	36	28	25	24	20	38	54	41	40	38	30
Romania	121	156	171	202	302	360	213	213	191	230	376	330
Spain	8	4	4	9	7	10	14	6	8	17	14	14
Yugoslavia	15	31	32	34	31	35	30	48	67	63	67	55

Continent and Country	Area[2] 1975/76	1976/77	1977/78	1978/79	1979/80	1980/81[3]	Production 1975/76	1976/77	1977/78	1978/79	1979/80	1980/81[3]
	(In 1,000 hectares)						(In 1,000 metric tons)					
SOVIET UNION:	810	762	786	815	836	876	780	480	545	639	467	540
ASIA:												
China:												
Mainland	9,100	6,700	6,800	7,100	7,200	7,300	9,000	6,600	7,300	7,600	7,500	7,500
Taiwan	36	30	24	24	19	25	53	52	41	41	32	40
India	100	200	225	275	400	550	70	150	180	220	300	450
Indonesia	646	646	733	764	765	770	522	523	617	674	650	660
Iran	54	57	42	67	70	65	70	102	86	115	130	115
Japan[5]	83	79	127	127	130	130	110	111	190	190	192	174
Korea, North	395	400	300	300	300	300	290	300	310	320	330	330
Korea, Republic of[5]	274	247	251	247	207	230	311	295	319	293	257	288
Philippines	11	15	9	9	9	10	9	11	7	6	7	8
Thailand[6]	112	100	110	115	120	125	114	114	96	94	95	100
Turkey	6	6	5	3	3	6	7	8	6	3	3	8
OCEANIA:												
Australia	26	35	48	54	56	37	45	55	73	99	89	52
WORLD TOTAL	41,018	37,953	43,088	46,981	51,033	50,440	66,800	59,287	72,020	77,225	93,371	81,774

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[1] Split years shown refer to years of harvest, Northern Hemisphere crops which are harvested in the first part of the split year (for example September-October 1975) and Southern Hemisphere crops which are harvested in the first part of the following year (for example March-April 1976). In this example, the split year designation would be 1975/76. [2] Figures refer to harvested areas as far as possible. [3] Estimated. [4] Hectare harvested for beans. [5] Planted area. [6] Quantities purchased by the Nigerian Marketing Board for exports. [7] European farms only.

Source: Foreign Agricultural Service, U.S. Department of Agriculture.

U.S. SOYBEAN PRODUCTION

Soybeans: Acreage, Yield and Production, 1925-80

	Acres planted			Acres harvested			Average yield per acre harvested		Total production	
	grown alone	inter-planted[1]	equivalent solid[2]	for beans	for hay	grazed or plowed under	for beans	for hay	for beans	for hay
Year	Thousand acres			Thousand acres			Bushels	Tons	Th. bu.	Th. tons
1925	1,539	476	1,785	415	1,175	195	11.7	1.01	4,875	1,185
1930	3,072	786	3,473	1,074	2,062	337	13.0	.94	13,929	1,938
1935	6,966	1,028	7,503	2,915	4,044	544	16.8	1.34	48,901	5,422
1940	10,487	2,589	11,782	4,807	4,819	2,156	16.2	1.34	78,045	6,450
1945	13,056	1,505	13,807	10,740	1,940	1,127	18.0	1.26	193,167	2,451
1950	15,048	1,184	15,640	13,807	963	870	21.7	1.31	299,249	1,260
1955	19,674	617	19,981	18,620	705	656	20.1	1.28	373,682	910
1960	24,440	398	24,649	23,655	449	545	23.5	1.44	555,095	646
1961	27,787	332	27,981	27,003	424	549	25.2	1.47	678,554	624
1962	28,418	290	28,593	27,608	475	514	24.2	1.37	669,186	650
1963	29,462	278	29,598	28,615	547	471	24.5	1.38	699,165	757
1964	31,721	234	31,794	30,793	531	525	22.8	1.39	700,921	—
1965	35,227	—	—	34,449	—	—	24.5	—	845,608	—
1966	37,294	—	—	36,546	—	—	25.4	—	928,481	—
1967	40,819	—	—	39,805	—	—	24.5	—	976,439	—
1968	42,265	—	—	41,391	—	—	26.7	—	1,106,958	—
1969	42,534	—	—	41,337	—	—	27.4	—	1,133,120	—
1970	43,082	—	—	42,249	—	—	26.7	—	1,127,100	—
1971	43,476	—	—	42,705	—	—	27.5	—	1,175,989	—
1972	46,886	—	—	45,683	—	—	27.8	—	1,270,630	—
1973	56,549	—	—	55,667	—	—	27.7	—	1,547,165	—
1974	52,479	—	—	51,341	—	—	23.2	—	1,214,802	—
1975	54,550	—	—	53,579	—	—	28.9	—	1,547,383	—
1976	50,226	—	—	49,358	—	—	26.1	—	1,287,560	—
1977	58,760	—	—	57,612	—	—	30.6	—	1,761,755	—
1978	64,708	—	—	63,663	—	—	29.4	—	1,868,754	—
1979	71,632	—	—	70,566	—	—	32.1	—	2,267,901	—
1980[3]	70,087	—	—	67,856	—	—	26.8	—	1,817,097	—

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[1] Grown with other crops. [2] Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). [3] Preliminary.

Source: CROP PRODUCTION SUMMARY; Economics and Statistics Service.

NUMBER OF U.S. SOYBEAN PROCESSING PLANTS

Estimated Number of Soy Oil Mills and Processing Capacity,1951-80

		Annual processing capacity				Average per mill	
Year beginning September	Processing mills[1] Number	Total[2]	Utilized[3] Mil. bu.	Excess[4]	Ratio of utilized to total Pct.	Processing capacity Mil. bu.	Capacity utilized[3] Mil. bu.
1951	193	310	244	66	79	1.6	1.3
1955	152	(355)	282	73	79	2.3	1.9
1960	125	525	406	119	77	4.2	3.2
1961	131	(535)	431	104	81	4.1	3.3
1962	130	550	473	77	86	4.2	3.6
1963	132	575	437	138	76	4.4	3.3
1964	125	585	479	106	82	4.7	3.8
1965	125	600	537	63	89	4.8	4.4
1966	129	650	559	91	86	5.0	4.3
1967	135	750	576	174	77	5.5	4.3
1968	134	750	606	144	81	5.6	4.5
1969	132	800	737	63	92	6.1	5.6
1970	130	875	760	115	87	6.7	5.8
1971	123	900	720	180	80	7.3	5.9
1972	117	925	722	203	78	7.9	6.2
1973	113	1,000	821	179	82	8.8	7.3
1974	108	1,050	701	349	67	9.7	6.5
1975	103	1,100	865	235	79	10.7	8.4
1976	103	1,200	790	410	66	11.7	7.7
1977	99	1,250	927	323	74	12.6	9.4
1978	95	1,300	1,018	282	78	13.7	10.7
1979[5]	94	1,350	1,123	227	83	14.4	11.9
1990[6]	NA	1,425	1,040	385	73	NA	NA

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[1] Estimates developed from census data and directories. Includes cottonseed and other oilseed mills that process significant quanitities of soybeans. [2] Estimates shown here are approximations of capacity at the beginning of the marketing year. Capacity fluctuates during any year due to new plants coming into operation and additions to existing mills, some mills becoming dormant (due to explosions, fires, strikes, etc.) and dismantling of older mills. [3] Soybeans actually crushed. [4] Difference between total capacity and soybean utilized (crushed). [5] Preliminary. [6] Forecast. Source: FATS & OILS OUTLOOK AND SITUATION, Economics and Statistics Service, U.S. Department of Agriculture.

U.S. SOYBEAN MEAL: PRICES PAID BY FARMERS

Soybean Meal, 44% Protein: Prices Paid by Farmers per 100 Pounds, by Months, 1950-80

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
1950	$4,20	$4.02	$4.11	$4.19	$4.58	$4.73	$5.16	$5.01	$4.44	$4.15	$4.24	$4.34	$4.43
1955	4.77	4.73	4.62	4.50	4.36	4.16	4.16	4.14	4.17	4.33	4.08	3.97	4.33
1960	4.24	4.19	4.14	4.16	4.09	4.05	4.03	3.98	4.01	3.96	3.85	3.80	4.04
1965	4.76	4.81	4.80	4.82	4.82	4.90	5.03	5.04	5.01	5.01	5.10	5.01	4.93
1966	5.06	5.17	5.08	5.03	5.21	5.33	6.11	6.07	6.23	5.73	5.56	5.55	5.51
1967	5.60	5.51	5.45	5.35	5.26	5.31	5.38	5.30	5.47	5.32	5.20	5.17	5.36
1968	5.20	5.24	5.22	5.21	5.23	5.28	5.41	5.51	5.56	5.54	5.39	5.31	5.34
1969	5.24	5.21	5.21	5.21	5.24	5.31	5.36	5.35	5.32	5.26	5.26	5.28	5.27
1970	5.73	5.87	5.62	5.46	5.45	5.42	5.56	5.67	5.72	5.69	5.62	5.67	5.62
1971	5.74	5.69	5.67	5.62	5.63	5.71	5.76	5.79	5.69	5.64	5.61	5.65	5.68
1972	5.74	5.79	5.94	6.14	6.27	6.32	6.53	6.65	6.80	6.91	7.39	8.95	6.62
1973	10.40	11.50	12.60	12.10	15.40	19.60	17.00	18.60	14.90	13.30	11.20	11.90	14.00
1974	11.90	11.40	10.60	9.80	8.75	8.33	8.29	11.40	10.30	11.30	10.70	10.30	10.30
1975	9.86	9.10	8.37	8.64	8.54	8.48	8.57	8.88	9.24	9.23	8.75	8.74	8.87
1976	8.81	8.84	8.86	8.84	9.34	11.50	12.50	11.70	12.20	11.60	11.50	12.20	10.70
1977	12.60	13.00	13.70	15.10	16.00	15.40	13.20	11.80	11.20	10.70	11.00	11.30	12.90
1978	11.30	10.90	11.30	11.90	11.80	11.90	11.90	11.50	11.50	11.80	12.30	12.40	11.70
1979	12.50	12.60	12.80	12.80	12.80	13.10	14.00	13.50	13.20	13.20	12.80	13.00	13.03
1980	12.80	12.80	12.60	12.20	12.30	12.40	12.70	13.70	14.60	15.30	16.50	16.30	13.68
1981	15.90												

Source: AGRICULTURAL PRICES; Economics and Statistics Service, U.S.Department of Agriculture.

U.S. SOYBEAN MEAL: AVERAGE WHOLESALE PRICE

Soybean Meal, 44% Protein[1], Average Wholesale Price per Ton, Bulk Chicago by Months, 1950-80

Year[2]	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Avg.
1950-51	59.40	67.35	70.40	70.70	76.05	72.65	68.45	69.55	69.30	73.50	70.40	76.30	70.30
1955-56	62.20	55.25	56.60	57.35	55.90	53.55	59.70	66.30	67.40	61.65	58.80	53.60	59.00
1960-61	52.75	48.00	55.15	59.00	65.25	68.20	77.00	75.00	67.85	68.85	71.10	63.60	64.30
1961-62	59.50	63.30	64.10	63.50	61.40	64.90	66.30	68.20	71.00	72.50	74.00	80.90	67.50
1962-63	73.30	74.50	74.70	75.80	76.50	74.70	72.00	71.50	74.20	76.50	79.50	79.40	75.20
1963-64	77.60	79.20	81.70	81.50	78.80	77.60	74.00	69.80	70.70	69.80	68.10	73.70	75.20
1964-65	73.40	70.30	72.10	72.10	74.20	72.70	73.60	72.80	79.20	78.90	74.40	81.30	74.60
1965-66	75.20	80.20	75.70	83.20	81.50	75.90	80.00	84.80	96.90	101.50	102.30	92.70	85.80
1966-67	86.60	83.40	89.10	86.10	83.70	81.10	78.90	78.10	82.50	82.60	83.00	83.60	83.20
1967-68	76.30	76.30	77.80	79.50	78.90	79.30	79.00	79.60	83.90	87.20	88.90	89.60	81.40
1968-69	82.50	78.10	76.10	74.20	74.40	77.00	77.80	80.60	82.00	81.80	81.30	77.30	78.60
1969-70	79.90	74.60	87.90	92.50	90.25	77.40	79.60	76.20	79.90	88.10	89.20	86.00	83.50
1970-71	82.40	83.20	87.40	85.60	82.60	82.40	80.25	84.25	87.50	90.25	84.75	79.25	84.20
1971-72	80.75	79.80	86.60	88.60	91.00	97.00	100.60	101.40	101.10	107.50	107.10	113.90	96.30
1972-73	114.90	129.40	180.60	195.00	225.30	206.50	209.80	321.20	418.90	317.80	291.60	214.70	235.50
1973-74	166.20	173.80	198.80	178.80	166.80	154.20	124.30	116.30	107.10	145.80	164.00	146.00	153.50
1974-75	176.00	148.80	151.20	137.00	125.00	125.60	129.90	128.30	129.20	132.30	143.40	143.00	139.10
1975-76	135.30	126.90	134.60	137.75	140.75	137.50	136.60	162.10	198.10	204.10	183.50	189.60	157.20
1976-77	179.80	191.40	207.80	217.20	221.20	236.40	285.80	268.40	235.50	172.50	150.90	194.25	210.10
1977-78	145.40	172.30	170.70	173.10	164.00	190.50	184.10	188.50	180.50	183.10	174.10	175.40	175.17
1978-79	188.40	188.70	200.40	196.50	202.40	206.20	202.80	199.70	221.40	213.60	201.00	200.70	201.82
1979-80	193.50	195.20	200.10	192.40	186.50	176.90	166.60	178.90	173.40	200.40	220.10	247.20	194.27
1980-81	259.10	274.10	236.40	236.20									

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[1] 41% 1940-50. [2] Begins in October.
Source: Economics and Statistics Service, National Economics Division, Crops Branch.

U.S.SOYBEAN MEAL: AVERAGE WHOLESALE PRICE

Soybean Meal, 44% Protein[1], Average Wholesale Price per Ton, Bulk Decatur by Months, 1950-80

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Avg.
1950-51	54.05	61.45	64.70	63.90	69.25	67.00	62.00	63.40	64.40	68.80	64.60	69.75	64.45
1955-56	56.00	49.00	50.25	51.00	49.40	47.40	53.00	60.05	60.75	54.80	52.10	46.90	52.55
1960-61	48.95	44.50	51.25	55.20	61.50	64.45	73.10	71.00	63.85	65.00	68.90	59.60	60.60
1961-62	55.80	59.30	60.20	59.90	57.60	60.60	62.50	64.10	66.70	68.50	71.10	76.70	63.60
1962-63	69.00	70.60	70.50	71.90	73.10	70.80	68.30	68.10	70.40	72.00	75.20	75.20	71.30
1963-64	73.50	74.90	76.90	77.50	74.80	73.40	69.90	65.50	66.50	65.80	63.90	69.50	71.00
1964-65	69.20	66.10	67.80	68.00	69.80	68.50	69.30	68.40	74.60	74.40	69.60	76.80	70.20
1965-66	70.80	75.70	71.40	78.80	77.30	71.50	75.50	80.30	92.70	97.20	97.90	88.40	81.50
1966-67	82.20	78.90	84.60	81.70	79.50	76.60	74.50	73.70	78.10	78.20	78.70	79.20	78.80
1967-68	71.80	71.90	73.40	75.10	74.50	75.00	74.60	75.00	79.50	82.80	84.40	85.10	76.90
1968-69	78.20	73.50	71.60	69.80	69.90	72.60	73.30	76.10	77.50	77.30	76.90	72.70	74.10
1969-70	75.40	69.90	82.90	87.50	85.25	71.80	74.60	71.20	74.70	82.90	84.00	81.20	78.40
1970-71	77.25	77.90	82.00	80.25	77.50	77.00	74.25	78.25	81.50	84.25	78.75	73.25	78.50
1971-72	74.75	73.80	80.60	82.60	84.80	90.90	94.50	95.30	95.00	101.40	101.00	107.75	90.20
1972-73	109.00	123.20	174.00	188.40	218.75	199.90	203.25	314.60	412.50	311.20	285.00	208.10	229.00
1973-74	159.60	167.00	192.00	172.00	160.00	147.10	117.20	109.25	100.00	138.10	155.90	138.10	146.40
1974-75	168.20	141.00	143.40	129.20	117.25	117.75	122.00	118.50	120.90	124.00	134.40	133.70	130.90
1975-76	125.90	119.90	125.10	128.25	132.60	127.90	127.10	152.25	187.90	193.90	173.30	179.20	147.80
1976-77	169.60	181.20	197.60	207.00	211.00	226.20	275.60	258.25	225.30	162.00	140.30	143.60	199.80
1977-78	135.00	161.70	160.10	162.20	152.90	179.40	173.00	177.40	169.75	172.00	162.90	163.90	164.20
1978-79	176.80	177.10	188.75	184.90	190.90	194.00	191.10	188.00	209.60	201.60	188.90	188.60	190.00
1979-80	181.40	183.10	188.00	180.20	174.25	164.60	154.90	166.50	160.90	187.90	207.40	236.00	182.01
1980-81	243.38	260.78	222.79	219.89	211.36								

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[1] 41% 1940-50.
Source: Economics and Statistics Service, National Economics Division, Crops Branch.

OILSEED CAKE AND MEALS: SUPPLY AND DISPOSITION

Supply, disposition and price; Year beginning in October
1972-80

	Supply				Disposition				
	Stocks Oct.1[1]	Production	Imports	Total	Domestic disappearance 1,000 tons	Exports	Shipments	Total	Price per ton[2] Dollars
1972-73									
Soybean	192	16,708	–	16,900	11,920	4,745	52	16,717	229.00
Cottonseed	33	2,267	4	2,304	2,198	24	27	2,249	161.20
Linseed	5	362	2	369	212	143	–	355	159.20
Peanut	2	182	–	184	181	–	–	181	–
Total	232	19,519	6	19,757	14,511	4,912	79	19,502	–
1973-74									
Soybean	183	19,674	–	19,857	13,766	5,548	36	19,350	146.35
Cottonseed	55	2,172	5	2,232	2,078	69	18	2,165	130.70
Linseed	14	287	14	315	194	107	–	301	127.95
Peanut	3	130	–	133	129	–	–	129	–
Total	255	22,263	19	22,537	16,167	5,724	54	21,945	–
1974-75									
Soybean	507	16,702	–	17,209	12,502	4,299	50	16,851	130.85
Cottonseed	67	1,851	1	1,919	1,808	11	39	858	119.55
Linseed	14	232	–[3]	246	94	144	–	238	126.65
Peanut	4	151	–	155	152	–	–	152	129.30
Total	592	18,936	1	19,529	14,556	4,454	89	19,099	–
1975-76									
Soybean	358	20,754	–	21,113	15,552	5,145	61	20,758	147.75
Cottonseed	61	1,238	11	1,311	1,238	24	28	1,291	148.60
Linseed	8	227	–	235	84	143	–	227	134.55
Peanut	3	311	–	315	313	–	–	313	150.90
Total	430	22,530	11	22,974	17,187	5,312	89	22,589	–
1976-77									
Soybean	355	18,488	–	18,843	14,001	4,559	55	18,615	199.80
Cottonseed	20	1,643	2	1,665	1,524	50	32	1,606	175.80
Linseed	7	210	1	218	127	87	–	214	156.85
Peanut	2	204	–	206	203	–	–	20[illegible]	207.40
Total	384	20,545	3	20,932	15,855	4,696	87	20,638	–
1977-78									
Soybean	228	22,371	–	22,599	16,209	6,080	67	22,356	164.20
Cottonseed	59	2,083	4	2,146	1,920	115	42	2,077	140.45
Linseed	4	236	4	244	83	158	–	241	137.75
Peanut	3	99	–	102	100	–	–	100	164.35
Total	294	24,789	8	25,091	18,312	6,353	109	24,774	–
1978-79									
Soybean	243	24,354	–	24,597	17,645	6,610	75	24,330	190.10
Cottonseed	69	1,885	9	1,963	1,608	150	154	1,912	164.80
Linseed	3	244	2	249	125	118	–	243	152.20
Peanut	2	104	–	106	105	–	–	105	198.50
Total	317	26,587	11	26,915	19,483	6,878	229	26,590	–
1979-80									
Soybean	267	27,105	–	27,372	19,153	7,908	85	27,146	181.90
Cottonseed	51	2,049	7	2,107	1,680	175	199	2,054	164.10
Linseed	6	207	2	215	134	76	–	210	154.40
Peanut	1	125	–	126	125	–	–	125	186.10
Total	325	29,486	9	29,820	21,092	8,159	284	29,535	–
1980-81[4]									
Soybean	226	25,454	–	25,680	18,620	6,700	80	25,400	230.00
Cottonseed	53	1,955	7	2,015	1,645	150	180	1,975	205.00
Linseed	5	180	2	187	93	88	–	181	180.00
Peanut	1	88	–	89	87	–	–	87	225.00
Total	285	27,677	9	27,971	20,445	6,938	260	27,643	–

[1] Stocks at processing mills. [2] Soybean meal, 44% protein, bulk Decatur. Cottonseed meal, 41% protein, bulk Memphis. Peanut meal, 50% protein, southeast milling points. [3] Less than 500 tons. [4] Forecast. Source: Program Adjustment Division, Agriculture Stabilization & Conservation Service, U.S. Department of Agriculture.

PRICES OF U.S. SOY OIL

Soy Oil, Domestic Crude: Average cents per Pound in Tank Cars at Midwestern Mills by Months 1950-80

Crop year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season avg.**
1950-51	14.6	17.1	19.6	20.6	21.1	20.5	20.5	19.5	16.4	14.5	15.4	14.0	17.8
1955-56	10.9	11.0	10.9	11.7	12.8	14.3	14.9	15.3	13.6	12.5	11.4	11.3	12.5
1960-61	9.4	10.2	10.0	10.9	12.2	13.0	13.3	12.7	13.6	10.9	10.9	10.5	11.3
1961-62	10.7	10.4	10.5	10.5	10.2	10.1	9.9	9.3	8.4	8.0	8.2	8.1	9.5
1962-63	8.7	8.6	8.6	8.9	9.2	9.3	9.1	9.2	9.1	9.0	8.3	8.5	8.9
1963-64	9.2	9.1	8.3	8.1	8.0	8.1	7.9	8.4	8.2	8.5	8.8	9.7	8.5
1964-65	10.9	12.2	12.0	11.6	12.1	12.2	12.1	10.4	10.2	10.0	10.5	11.4	11.3
1965-66	11.5	11.2	11.2	11.9	12.0	11.3	11.6	11.3	11.2	12.3	14.1	12.3	11.8
1966-67	10.9	10.8	10.6	10.3	10.3	10.3	10.3	10.3	9.8	9.1	9.6	9.3	10.1
1967-68	8.8	8.6	8.6	8.7	9.5	9.1	8.8	8.7	7.8	7.4	7.5	7.5	8.4
1968-69	7.3	7.9	8.1	8.6	8.9	8.8	8.4	8.4	7.8	8.2	8.9	9.7	8.4
1969-70	10.6	10.9	9.6	9.6	11.5	12.2	12.2	11.3	11.1	11.5	11.6	12.1	11.2
1970-71	14.0	13.9	12.4	12.3	12.1	12.2	11.2	11.4	12.8	14.5	14.5	12.8	12.8
1971-72	13.2	12.5	11.7	10.9	11.0	11.7	11.9	11.4	10.7	10.3	10.1	9.8	11.3
1972-73	9.6	9.6	9.7	10.1	13.0	13.9	15.0	17.1	19.3	22.4	33.5	24.3	16.5
1973-74	23.1	20.4	26.0	28.6	36.4	30.2	28.2	29.4	31.6	40.5	43.3	40.7	31.5
1974-75	42.3	40.4	38.0	33.6	29.4	29.1	28.2	23.6	23.3	27.5	28.5	24.4	30.7
1975-76	21.4	18.9	16.8	16.2	16.3	16.6	16.3	15.8	17.6	20.9	20.4	22.5	18.3
1976-77	20.7	21.8	21.0	20.9	22.4	26.5	29.6	31.3	28.3	23.8	21.1	19.2	23.9
1977-78	18.8	21.0	22.6	20.9	21.6	26.6	26.8	28.8	26.9	25.9	26.3	27.8	24.5
1978-79	26.7	23.7	25.3	25.8	27.3	26.9	26.7	27.8	27.4	29.1	29.2	30.0	27.2
1979-80	27.9	27.8	26.2	23.6	23.4	22.1	20.3	20.8	21.6	26.2	25.9	26.1	24.3
1980-81	25.1	26.7	22.6										

**Simple average for months shown.

Source: Marketing Research Service, U.S.Department of Agriculture. Monthly prices, Oct. 1938-Dec. 1952 compiled from The National Provisioner; since February 1953 from Oil Paint and Drug Reporter. June 1969-Nov. 1978 monthly prices compiled from Chicago. Wall Street Journal. Beginning Dec. 1978 monthly prices' source, FATS & OIL OUTLOOK AND SITUATION

U.S. EXPORTS OF SOYBEANS

Exports by Months, Crop Years 1953-1980 (Million Bushels)

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Total
1953	1.1	5.8	10.1	7.7	3.7	2.5	1.7	3.2	1.6	1.0	1.0	.7	40.1
1955	4.0	8.8	13.2	12.7	6.8	2.6	1.9	5.1	4.3	3.7	3.7	1.7	68.6
1960	8.2	14.1	22.7	20.6	9.1	10.2	8.5	7.7	11.4	7.7	7.7	7.0	134.7
1961	3.6	20.7	23.6	16.5	10.9	10.3	11.0	11.7	12.7	11.9	8.1	8.4	149.4
1962	7.3	22.4	27.4	18.7	3.7	19.3	14.4	14.1	11.6	15.6	14.3	11.8	180.5
1963	7.2	19.8	21.3	21.8	17.0	16.2	13.6	17.6	14.0	13.0	11.9	13.7	187.2
1964	11.1	29.5	27.4	24.4	2.9	11.3	25.0	17.6	17.8	16.1	17.4	11.7	212.2
1965	4.8	32.3	39.4	31.4	19.6	17.1	21.6	20.2	21.5	19.6	12.1	11.1	250.6
1966	5.5	29.4	40.6	29.8	21.9	20.4	17.5	21.7	21.8	20.0	16.8	16.2	261.6
1967	10.3	29.7	39.9	27.2	21.8	18.8	24.1	21.6	20.1	18.7	17.1	17.5	266.6
1968	13.9	32.8	50.0	38.5	1.2	11.4	36.6	34.3	23.8	14.0	18.2	12.1	286.8
1969	13.3	52.5	53.7	39.9	28.7	31.6	39.2	41.2	37.1	38.5	25.2	31.6	432.6
1970	29.9	44.0	45.3	46.9	35.1	33.0	35.1	32.8	30.2	34.9	34.4	31.3	433.8
1971	29.2	29.4	47.4	50.3	42.4	35.5	31.3	37.3	31.7	31.1	26.3	24.9	416.8
1972	15.0	54.3	61.2	49.1	47.7	54.7	59.1	45.5	41.0	26.5	14.2	11.0	479.4
1973	7.5	46.6	74.4	58.0	48.3	56.4	57.9	62.0	43.5	36.1	27.1	21.2	539.1
1974	22.9	32.2	63.2	41.4	50.0	33.3	38.4	35.8	25.1	14.0	31.0	33.4	420.7
1975	24.3	62.7	61.5	49.6	51.8	52.2	52.3	50.5	49.5	47.2	29.2	24.3	555.1
1976	22.2	60.1	67.4	56.7	50.9	59.9	58.4	57.0	55.1	31.0	27.2	18.1	564.1
1977	15.0	77.6	87.7	57.0	52.6	54.4	66.6	72.7	79.3	63.4	34.7	39.3	700.3
1978	38.0	87.5	101.7	70.6	77.0	53.2	83.6	67.8	47.0	41.0	32.7	39.7	739.8*
1979	40.8	88.8	118.1	78.3	85.8	73.0	69.3	81.3	74.2	58.7	49.1	57.7	875.1
1980	41.4	60.3	75.0										

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*Bureau of Census figure. USDA figure 753., based on inspections for export. Figures may be adjusted in the future. Source: FOREIGN AGRICULTURE CIRCULAR. Foreign Agriculture Service, U.S. Department of Agriculture.

IMPORTS, EXPORTS CAKE AND MEAL

Year beginning October 1932-1980
(1,000 Short Tons)

	IMPORTS						EXPORTS					
Year	Cottonseed	Soybean	Linseed	Peanut	Copra	Total	Cottonseed	Soybean	Linseed	Peanut	Copra	Total
1932	3.0	28.3	11.2	†2.3	7.1	51.9	145.8	★	168.0	★	★	313.8
1933	5.0	25.0	8.7	1.2	27.9	67.8	63.1	★	241.7	★	★	304.8
1934	47.4	64.2	10.2	3.5	51.5	176.8	2.9	★	205.5	★	★	208.4
1935	5.7	20.0	17.2	1.9	49.3	94.1	10.6	★	210.6	★	★	221.2
1936	26.8	55.7	15.9	9.6	73.0	181.0	12.6	★	328.8	★	★	341.4
1937	4.6	15.5	5.3	2.2	39.8	67.4	88.5	★	240.3	★	★	328.8
1938	4.4	12.3	7.8	10.5	53.9	88.9	11.6	35.0	286.6	★	★	333.2
1939	33.0	12.1	1.3	9.8	88.4	144.6	4.9	62.3	146.7	★	★	213.9
1940	52.2	8.1	.6	7.5	84.0	152.4	.9	25.4	4.8	★	★	31.1
1941	37.3	0.0	.2	7.1	22.6	67.2	1.1	19.7	11.1	★	★	31.9
1942	46.8	0.0	1.0	4.6	0.0	52.4	1.7	20.9	4.2	.1	.1	27.0
1943	96.3	0.0	2.5	3.6	0.0	102.4	.6	16.1	1.5	.1	.1	18.4
1944	87.4	0.0	10.0	2.5	.1	100.0	‡	10.0	.7	.4	.1	11.2
1945	47.6	‡	1.2	3.1	1.5	53.4	‡	.9	.3	.1	.1	1.4
1946	15.6	0.0	‡	1.1	.5	17.2	5.3	141.7	4.6	26.2	5.1	182.9
1947	13.8	0.0	8.8	3.1	7.0	32.7	9.6	95.7	28.5	3.7	0.0	137.5
1948	39.4	3.2	8.1	.9	44.3	95.9	121.7	150.1	54.0	21.1	0.0	346.9
1949	104.8	26.1	4.8	6.2	56.4	198.3	123.6	47.4	6.5	48.9	0.0	226.4
1950	90.7	32.8	1.0	1.1	65.8	191.4	13.2	181.1	29.2	24.0	.3	247.8
1951	201.9	24.1	23.3	5.2	104.2	358.7	35.0	41.8	7.0	2.2	‡	86.0
1952	135.6	41.1	26.4	3.5	96.5	303.1	55.2	46.8	‡	‡	‡	102.0
1953	69.8	15.6	.6	.7	79.8	166.5	66.1	66.5	34.2	1.4	★	168.2
1954	32.3	0.0	0.0	0.0	62.8	95.1	167.8	271.7	75.0	1.6	★	516.1
1955	59.4	0.0	0.0	0.0	44.9	104.3	155.7	400.4	152.6	30.0	★	738.7
1956	54.6	.1	2.5	0.0	66.6	123.8	30.1	443.2	42.7	15.0	★	531.0
1957	71.6	1.4	7.9	0.0	67.5	148.4	7.2	300.0	5.9	1.7	★	322.6
1958	127.5	‡	4.0	0.0	30.6	162.1	27.3	512.2	31.2	★	★	570.7
1959	32.3	.1	2.1	0.0	8.1	42.6	140.2	648.7	62.6	★	★	851.5
1960	45.8	0.0	2.1	0.0	18.0	65.9	46.2	589.7	30.9	0.0	0.0	666.7
1961	75.5	0.0	2.1	0.0	15.5	93.1	25.8	1063.7	28.1	0.0	0.0	1117.6
1962	42.0	0.0	.7	0.0	8.9	51.6	84.9	1475.7	52.1	0.0	0.0	1612.7
1963	30.1	0.0	.8	0.0	22.9[1]	53.8	54.3	1478.4	61.3	0.0	11.5[1]	1624.2
1964	20.1	0.0	1.2	0.0	13.6[1]	34.9	138.8	2036.1	72.8	0.0	22.6[1]	2270.4
1965	44.4	0.0	1.0	0.0	7.1[1]	52.5	98.8	2601.6	113.7	0.0	53.9[1]	2868.0
1966	58.8	0.0	5.8	0.0	14.8[1]	79.9	7.2	2656.6	93.4	0.0	32.8[1]	2790.1
1967	44.3	0.0	.3	0.0	4.0[1]	48.6	3.3	2899.4	103.7	0.0	81.4[1]	3087.9
1968	29.5	0.0	1.7	0.0	4.0[1]	35.2	15.0	3044.3	78.5	0.0	61.0[1]	3198.9
1969	1.1	0.0	1.9	0.0	6.7[1]	9.7	18.8	4035.3	83.5	0.0	50.5[1]	4188.4
1970	0.0	0.0	1.5	0.0	2.2[1]	3.7	27.0	4559.1	110.1	0.0	76.5[1]	4772.7
1971	.1	0.0	3.0	0.0	10.6[1]	13.7	6.3	3805.4	143.5	0.0	90.3[1]	4045.5
1972	4.3	0.0	2.2	0.0	NA	6.5	24.0	4744.8	142.7	0.0	NA	4911.5
1973	4.6	0.0	13.6	0.0	NA	18.2	69.0	5547.6	106.7	0.0	NA	5723.3
1974	1.0	0.0	0.0	0.0	NA	1.0	11.4	4298.8	143.6	0.0	NA	4453.8
1975	11.4	0.0	0.0	0.0	NA	11.4	24.1	5144.8	143.1	0.0	NA	5312.0
1976	2.0	0.0	1.0	0.0	NA	3.0	50.0	4559.0	87.0	0.0	NA	4696.0
1977	0.0	4.0	4.0	0.0	NA	8.0	115.0	6080.0	158.0	0.0	NA	6353.0
1978	9.0	0.0	2.0	0.0	NA	11.0	150.0	6610.0	118.0	0.0	NA	6878.0
1979	7.0	0.0	2.0	0.0	NA	9.0	175.0	7908.0	76.0	0.0	NA	8159.0
1980[3]	7.0	0.0	2.0	0.0	NA	9.0	150.0	6700.0	88.0	0.0	NA	6936.0

★Not separately reported. †Calendar year following. ‡Less than 50 tons. [1]Includes copra and other cake and meal no longer separately reported by Census. [2]Preliminary based on 11 months' data. [3]Forecast.

Source: Program Adjustment Division, Agriculture Stabilization & Conservation Services, U.S. Department of Agriculture.

U.S. SOYBEAN PRICE SUPPORT OPERATIONS
1950-1980

Year beg. Oct. 1	Production	Owned by CCC on Oct. 1	Under Price Support: Loans	Under Price Support: Purchase agreements	Under Price Support: Total	% of crop	Deliveries to CCC	Support rate per bu.	Season avg. price rec'd by farmers[2]	Price rec'd by farmers as% of parity[3]
	(1,000 bu.)	(1,000 bu.)	(1,000 bu.)	(1,000 bu.)	(1,000 bu.)	%	(1,000 bu.)	$	$	%
1945-46	193,167	–	32	–	32	0.02	–	2.04	2.08	123
1950-51	299,249	7	14,716	238	14,954	5.00	29.0	2.06	2.47	102
1955-56	373,682	6,570	27,490	2,643	30,133	8.10	2.0	2.04	2.22	82
1960-61	555,085	9,700	25,400	200	25,600	4.60	0.0	1.85	2.13	84
1961-62	678,554	0	114,700	17,800	132,500	19.50	57,200.0	2.30	2.28	79
1962-63	669,186	42,500[4]	66,600	2,200	68,800	10.30	1.2	2.25	2.34	79
1963-64	699,165	1,700	69,600	3,200	72,800	10.40	12.2	2.25	2.51	83
1964-65	700,921	3,038	28,572	–	28,572	4.10	8.0	2.25	2.62	86
1965-66	845,608	9	86,517	–	86,517	10.20	29.0	2.25	2.54	84
1966-67	928,481	1	153,142	–	153,154	16.50	25,955.0	2.50	2.75	85
1967-68	976,439	7,363[5]	200,638	–	200,638	20.50	83,488.0	2.50	2.49	75
1968-69	1,106,958	41,555[6]	336,862	–	336,862	30.50	166,327.0	2.50	2.43	71
1969-70	1,133,120	180,867[7]	179,496	–	179,496	15.90	230.0	2.25	2.35	65
1970-71	1,127,100	115,311[8]	146,416	–	146,416	13.00	37.0	2.25	2.85	75
1971-72	1,176,101	1,401	168,204	–	168,204	14.30	45.0	2.25	3.03	72
1972-73	1,270,608	–	90,555	–	90,555	7.10	6.0	2.25	4.37	88
1973-74	1,547,543	–	124,177	–	124,177	8.00	4.0	2.25	5.68	92
1974-75	1,216,287	–	34,554	–	34,554	2.80	–	2.25	6.64	95
1975-76	1,548,344	–	–	–	–	–	–	None	4.92	68
1976-77	1,288,608	–	22,471	–	22,471	1.70	–	2.50	6.81	90
1977-78	1,767,267	–	97,262	–	97,262	5.50	4.0	3.50	5.88	77
1978-79	1,868,754	–	64,208	–	64,208	3.40	18.0	4.50	6.66	75
1979-80	2,267,901	–	122,417	–	122,417	5.40	48.0	4.50	6.28	62
1980-81	1,817,097	–	–	–	–	–	–	5.02	–	–

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[1] The prices shown from which the support levels were computed are comparable and parity prices originally reported as follows: 1941-49, August comparable price; 1950-55, parity prices as follows: 1950, August; 1951, January; 1955, February 1955; 1956, January. [2] State average weighted by sales to obtain national average. Prices for years in which there was a substantial volume of deliveries to CCC from loans and purchase agreements include an allowance for such deliveries valued at average loan rates. [3] Generally mid-September parity prices. [4] Excludes 11 million bushels resealed in farm storage. [5] Excludes 20 million bushels resealed in farm storage. [6] Excludes 52 million bushels resealed. [7] Excludes 103 million bushels resealed. [8] Excludes 42 million bushels resealed.

Source: Production Adjustments Division, U.S. Department of Agriculture.

U.S. SOYBEANS: VALUE OF PRODUCTS PER BUSHEL OF SOYBEANS PROCESSED AND PRICE SPREAD, 1950-79

	Value of products per bushel							Soybean price		Spread between value of products and soybean price	
	Soy Oil			Soybean Meal							
Year beg. Sept.	Yield[1] pounds	Price[2] cents	Value dollars	Yield[1] pounds	Price[2] cents	Value dollars	Total value dollars	Rec'd by farmers[3] dollars	No.1 Y IL pts.[3] dollars	Rec'd by farmers dollars	No.1 Y IL pts. dollars
1950	9.7	17.9	1.74	46.8	3.16	1.48	3.22	2.47	2.95	.75	.27
1955	11.1	12.5	1.39	46.2	2.68	1.24	2.63	2.22	2.51	.41	.12
1960	11.0	11.2	1.23	47.0	3.00	1.41	2.64	2.13	2.53	.51	.11
1961	10.9	9.7	1.06	47.2	3.11	1.47	2.53	2.28	2.41	.25	.12
1962	10.7	8.8	.94	46.9	3.57	1.67	2.61	2.34	2.50	.27	.11
1963	10.9	8.4	.92	48.0	3.58	1.72	2.64	2.51	2.59	.13	.05
1964	10.9	11.2	1.22	47.7	3.48	1.66	2.88	2.62	2.81	.26	.07
1965	10.7	11.8	1.26	47.5	4.02	1.91	3.17	2.54	2.91	.63	.26
1966	10.7	10.4	1.11	47.7	3.98	1.90	3.01	2.75	2.86	.26	.15
1967	10.6	8.6	.91	47.7	3.82	1.82	2.73	2.49	2.61	.24	.12
1968	10.6	8.2	.87	47.4	3.76	1.78	2.66	2.43	2.54	.23	.12
1969	10.7	11.0	1.17	47.4	3.89	1.84	3.01	2.35	2.53	.66	.48
1970	10.8	12.8	1.38	47.4	3.96	1.88	3.26	2.85	3.00	.41	.26
1971	11.0	11.5	1.26	47.4	4.36	2.07	3.33	3.03	3.24	.30	.09
1972	10.6	15.2	1.62	47.0	11.03	5.19	6.81	4.37	6.21	2.44	.60
1973	10.8	30.2	3.25	47.2	7.61	3.59	6.84	5.68	6.12	1.16	.72
1974	10.5	32.1	3.37	47.5	6.56	3.12	6.49	6.15[4]	6.32	.34	.17
1975	10.9	18.5	2.02	47.3	7.20	3.40	5.42	4.92	5.26	.50	.16
1976	11.1	24.1	2.67	47.8	10.14	4.85	7.52	6.81	7.33	.71	.19
1977	10.9	23.8	2.59	47.3	8.09	3.83	6.42	5.88	6.14	.54	.28
1978[6]	11.1	27.0	2.99	47.6	9.40	4.48	7.47	6.66	7.11	.81	.36
1979[6]	10.7	24.7	2.65	48.0	8.91	4.27	6.92	6.25	6.51	.67	.41

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[1] Actual outturn of oil and meal as calculated from Bureau of Census Reports. [2] Simple average of monthly cash prices per pound using the following quotations: soybean oil, crude, tank cars, F.O.B. Decatur, IL.: soybean meal, bulk, 44% protein, Decatur, IL. [3] Season average price received by farmers weighted by the estimated percent of crops sold each month. [4] Simple average of monthly prices. [5] Preliminary. [6] Economics and Statistics Service estimate. Source: FATS & OILS OUTLOOK AND SITUATTION.

U.S. SOYBEANS: SUPPLY AND DISPOSITION

Soybeans: Supply, Disposition, Acreage and Price, 1970-80

	Year beginning September										
	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979[1]	1980[2]
	Supply and Disposition (Million Bushels)										
Supply											
Beginning stocks, Sept. 1	229.8	98.8	72.0	59.6	170.8	188.2	244.9	102.9	161.0	174.0	359.0
Production	1,127.1	1,176.1	1,270.6	1,547.5	1,216.3	1,547.4	1,287.6	1,761.8	1,870.0	2,267.6	1,817.1
Total Supply	1,356.9	1,274.9	1,342.6	1,607.1	1,387.1	1,735.6	1,532.5	1,864.7	2,031.0	2,442.0	2,176.0
Disposition											
Crushings	760.1	720.5	721.8	821.3	701.3	865.1	790.2	926.7	1,018.0	1,123.0	1,075.0
Exports	433.8	416.8	479.4	539.1	420.7	555.1	564.1	700.5	739.0	875.0	800.0
Seed	48.1	51.0	60.8	56.1	57.2	53.5	61.0	68.0	75.0	67.0	69.0
Feed	1.1	1.1	1.1	1.2	1.0	1.2	1.0	1.0	1.0	1.0	1.0
Residual	15.0	13.5	19.9	18.6	18.8	15.8	13.3	7.5	24.0	17.0	21.0
Total disposition	1258.1	1,202.9	1,283.0	1,436.3	1198.9	1490.7	1,429.6	1,703.7	1,857.0	2,063.0	1,966.0
Ending stocks, Aug.31	98.8	72.0	59.6	170.8	188.2	244.9	102.9	161.0	174.0	359.0	180.0
	Acreage and Yield (Million Acres)										
Acreage planted	43.1	43.5	46.9	56.6	52.5	54.6	50.2	58.8	64.4	71.6	70.3
Acreage harvested for beans	42.2	42.7	45.7	55.7	51.3	53.6	49.4	57.6	63.3	70.5	67.8
Percent harvested (%)	97.9	98.2	97.4	98.4	97.7	98.3	98.2	97.9	98.3	98.2	95.1
	(Bushels)										
Yield per acre harvested	26.7	27.5	27.8	27.7	23.2	28.9	26.1	30.6	29.5	31.5	26.8
	Price (Dollars)										
Price per bushel											
Support (U.S.farm basis)	2.25	2.25	2.25	2.25	2.25	—	2.50	3.50	4.50	4.50	5.02
Received by farmers	2.85	3.03	4.37	5.68	6.64	4.92	6.81	5.88	6.66	6.28	8.39
No. 1 yellow, IL pts.	3.00	3.24	6.22	6.12	6.32	5.26	7.33	6.14	7.11	6.51	—
No. 1 yellow, Chicago	3.05	3.29	6.26	6.12	6.33	5.25	7.36	6.11	7.09	—	—

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[1] Preliminary. [2] Forecast.

Source: FATS & OILS OUTLOOK AND SITUATION; Economics and Statistics Service.

U.S. SOYBEAN MEAL: PRODUCTION, STOCKS AND DISAPPEARANCE

Soybean Cake and Meal: Production, Stocks, Foreign Trade and Domestic Disappearance, 1973-80
(1,000 short tons)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
1973-74													
[1]Stocks	183.2	234.3	242.2	284.6	249.0	281.1	361.6	348.0	427.9	514.3	475.9	535.4	—
Production	1,464.6	1,688.0	1,703.8	1,757.1	1,657.7	1,783.1	1,646.5	1,693.8	1,630.2	1,704.2	1,654.3	1,288.1	19,674.4
Exports	301.4	496.0	528.2	455.0	551.2	581.4	532.2	431.8	582.8	436.4	417.2	270.4	5,584.0
Domestic disappearance	1,112.1	1,184.1	1,133.2	1,337.7	1,074.4	1,124.2	1,127.9	1,182.1	963.0	1,306.2	1,177.6	1,045.8	13,766.3
1974-75													
[1]Stocks	507.3	508.2	563.7	529.0	541.0	540.0	556.7	470.5	448.1	421.7	394.8	404.5	—
Production	1,467.0	1,457.7	1,427.3	1,483.9	1,282.0	1,435.8	1,368.2	1,245.4	1,256.2	1,407.6	1,532.5	1,337.9	16,701.5
Exports	406.8	412.5	366.6	492.1	371.9	282.2	540.3	218.9	330.0	270.2	371.9	285.8	4,349.2
Domestic disappearance	1,059.3	989.7	1,095.4	979.8	911.1	1,136.9	914.1	1,048.9	952.6	1,164.3	1,150.9	1,098.3	12,501.3
1975-76													
[1]Stocks	358.3	396.1	441.4	371.4	378.1	419.5	358.3	358.8	462.8	369.8	406.9	350.5	—
Production	1,700.5	1,697.0	1,807.8	1,748.3	1,616.5	1,820.0	1,830.2	1890.8	1,771.8	1,670.3	1,556.2	1,644.8	20,754.2
Exports	279.4	353.4	435.9	543.3	392.5	498.0	656.7	383.1	481.9	384.3	436.7	360.8	5,206.0
Domestic disappearance	1,383.3	1,298.3	1,441.9	1,198.3	1,182.6	1,383.2	1,173.0	1,403.7	1,382.9	1,248.9	1,175.9	1,279.6	15,551.6
1976-77													
[1]Stocks	354.9	423.5	427.7	353.9	384.7	429.9	412.6	449.0	408.3	390.7	399.0	270.1	—
Production	1,747.2	1,763.4	1,741.3	1,725.1	1,709.2	1,771.0	1,596.0	1,454.0	1,339.5	1,211.4	1,189.0	1,243.1	18,488.1
Exports	412.3	405.3	470.5	462.9	307.1	645.8	370.5	479.4	240.7	246.1	280.7	292.6	4,613.9
Domestic disappearance	1,266.3	1,353.9	1,344.6	1,231.4	1,356.9	1,142.5	1,189.1	1,015.3	1,116.4	956.9	1,034.9	992.6	14,000.8
1977-78													
[1]Stocks	228.3	270.0	239.7	245.1	251.7	239.7	227.4	298.5	263.3	191.0	262.6	234.1	—
Production	1,781.4	2,017.3	2,044.1	2,006.7	1,778.5	2,050.0	1,875.1	1,959.7	1,725.2	1,680.7	1,757.9	1,696.0	22,372.6
Exports	238.9	533.9	520.6	618.6	454.6	721.5	659.3	508.9	540.7	399.4	470.6	422.7	6,080.0
Domestic disappearance	1,500.8	1,506.5	1,518.0	1,376.1	1,328.9	1,334.9	1,142.2	1,478.9	1,252.9	1,204.7	1,307.6	1,259.1	16,210.6
1978-79													
[1]Stocks	242.9	239.5	205.9	289.1	242.2	225.0	238.2	264.7	237.2	239.0	262.4	173.7	—
Production	2,114.7	2,136.4	2,292.2	2,158.3	1,954.8	2,121.6	1,989.0	2,065.1	1,979.3	1,898.3	1,757.9	1,821.7	24,354.1
Exports	477.5	507.5	738.5	658.9	526.5	903.7	507.5	453.6	502.9	543.7	410.3	379.1	6,609.8
Domestic disappearance	1,640.6	1,661.5	1,470.5	1,546.2	1,445.5	1,204.7	1,454.9	1,638.9	1,474.6	1,331.2	1,502.3	1,348.9	17,719.8
1979-80													
[1]Stocks	267.4	234.3	195.2	240.3	184.3	191.3	251.1	226.1	299.0	302.1	270.5	262.1	—
Production	2,285.8	2,433.3	2,506.1	2,555.1	2,399.5	2,454.4	2,203.1	2,247.1	1,987.8	2,068.4	2,011.5	1,961.8	27,103.9
Exports	513.7	562.1	757.4	806.6	930.1	881[2]	661[2]	751[2]	558[2]	569[2]	379[2]	550[2]	7,909[2]
[2]Domestic disappearance[2]	1805	1920	1703	1806	1463	1513	1567	1423	1427	1520	1640	1449	19,235

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[1] Beginning of month. [2] Rounded figures.

Compiled from reports of the Bureau of the Census and the Agricultural Marketing Service; Livestock, Poultry, Grain & Seed Division; U.S.Department of Agriculture.

SOY OIL UTILIZATION

Utilization by Products, 1960-79(Million Pounds)

Year Beginning October	Food					Nonfood							Total Domestic Utili-zation
	Shortening	Margarine	Cooking and Salad Oils[1]	Other Edible	Total	Paint and Varnish	Resins and Plastics	Other Drying Oil Products	Fatty Acids	Other Inedible[2]	Foots and Loss	Total	
1960/61	1,097	1,073	793	26	2,989	96	64	4	6	30	139	340	3,329
1961/62	1,353	1,036	771	20	3,180	88	74	4	—	43	151	359	3,540
1962/63	1,222	1,069	933	15	3,239	90	78	6	1	47	163	385	3,624
1963/64	1,391	1,126	1,146	21	3,684	94	84	6	—	42	146	374	4,058
1964/65	1,404	1,107	1,100	32	3,643	94	105	5	12	45	165	426	4,069
1965/66	1,739	1,241	1,200	38	4,218	100	104	6	—	53	206	469	4,687
1966/67	1,691	1,273	1,353	58	4,375	96	97	7	—	61	201	462	4,837
1967/68	1,816	1,234	1,494	44	4,588	86	97	7	—	59	259	508	5,096
1968/69	1,978	1,290	1,967	36	5,271	87	94	7	--	61	236	485	5,756
1969/70	2,255	1,415	2,150	37	5,857	94	79	7	1	47	243	471	6,328
1970/71	2,077	1,381	2,288	34	5,780	82	65	6	3	49	267	472	6,253
1971/72	2,089	1,413	2,469	38	6,009	81	55	4	6	34	251	431	6,439
1972/73	2,230	1,491	2,469	39	6,229	81	57	4	9	35	270	456	6,685
1973/74	2,321	1,513	2,884	30	6,748	91	77	5	12	43	280	508	7,255
1974/75	1,882	1,486	2,680	22	6,070	83	58	3	16	28	260	448	6,518
1975/76	2,416	1,691	3,274	24	7,405	94	66	3	23	21	294	501	7,906
1976/77	2,189	1,568	3,221	25	7,003	85	83	4	26	32	278	508	7,511
1977/78	2,433	1,592	3,808	29	7,862	87	79	4	42	29	308	549	8,411
1978/79[3]	2,653	1,651	3,956	38	8,298	75	88	NA	35	46	310	554	8,852
1979/80[3]	2,658	1,648	4,153	35	8,493	52	80	NA	21	52	360	205	8,698

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[1] Adjusted for exports of refined and further processed salad oil. Prior to January 1965 no adjustment made for exports of undeodorized hydrogenated oil.
[2] Includes soap and other miscellaneous. [3] Preliminary.
Source: Fats & Oils, Production, Consumption & Stocks, Bureau of Census.

U.S. SOY OIL: SUPPLY AND DISPOSITION

Supply, Disappearance, Oil Equivalent of Exports of Soybeans, and Price, 1960-80

Year Beginning October	Supply				Disappearance				Soybean	Price per Pound (Tank Cars)	
	Production	Imports	Stocks October 1	Total Million pounds	Exports	Shipments to U.S. Territories	Domestic Disappearance Total	Domestic Disappearance Per Capita Pounds	(Oil equivalent of Exports Mil. Lb.	Crude, Decatur Cents	Refined, N.Y. Cents
1960	4,420	—	308	5,456	700[2]	—	3,329	18.5	1,431	11.3	13.6
1961	4,790	—	677	5,467	1,308[2]	—	3,540	19.4	1,686	9.5	11.7
1962	5,091	—	618	5,709	1,165[2]	—	3,624	19.5	1,984	8.9	11.1
1963	4,822	—	920	5,742	1,106[2]	—	4,058	21.5	2,103	8.5	10.7
1964	5,146	—	578	5,724	1,340[2]	—	4,069	21.3	2,265	11.3	13.4
1965	5,800	—	297	6,097	923	25	4,687	24.3	2,764	11.8	13.6
1966	6,076	—[3]	462	6,538	1,077	28	4,837	24.8	2,930	10.1	12.4
1967	6,032	—	596	6,628	963	30	5,096	25.9	2,972	8.4	10.5
1968	6,531	—[3]	540	7,071	870	29	5,756	29.0	3,148	8.4	10.4
1969	7,904	—	415	8,319	1,420	29	6,328	31.5	4,941	11.2	13.1
1970	8,265	—	543	8,808	1,742	40	6,253	30.7	4,764	12.8	14.6
1971	7,892	—[3]	773	8,665	1,398	42	6,439	31.3	4,429	11.3	12.7
1972	7,501	—[3]	785	8,286	1,066	20	6,686	32.2	5,191	16.5	17.7
1973	8,995	—[3]	516	9,511	1,436	26	7,256	34.7	6,100	31.5	33.0
1974	7,375	—	794	8,169	1,028	62	6,518	30.9	4,643	30.7	33.0
1975	9,630	—	561	10,191	976	58	7,906	37.2	6,179	18.3	23.5
1976	8,578	—	1,251	9,829	1,547	60	7,454	34.8	6,124	23.9	29.2
1977	10,288	—	771	11,059	2,057	58	8,193	37.9	7,769	24.6	29.6
1978	11,323	—	729	12,052	2,334	75	8,867	40.7	8,220	27.4	32.7
1979[4]	12,105	—	776	12,881	2,690	80	8,981	40.8	9,432	24.3[6]	—
1980[5]	11,720	—	1,210	12,930	2,200	—	9,250	—	—	24.5	—

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[1] Calculated at 11.0 pounds of oil per bushel. [2] Includes estimates of foreign donations of fats and oils, not reported by census, 1960-64. [3] Less than 500,000 pounds. [4] Preliminary. [5] Forecast. [6] October-December average. Source: FATS & OILS OUTLOOK AND SITUATION; Economics and Statistics Service, U.S. Department of Agriculture.

U.S. EXPORTS: SOYBEANS, OIL AND MEAL

Exports by Country of Destination and Total Value, 1978-80
(Metric Tons)

Continent and Country of Destination	Soybeans[1]			Soybean oil[2]			Soybean oilseed cake and meal[3]		
	1978	1979	1980[4]	1978	1979	1980[4]	1978	1979	1980[4,5]
North America:									
Canada	381,820	300,737	401,257	27,976	19,845	12,657	363,605	399,467	338,522
Mexico	699,868	407,618	931,249	34,252	729	50,347	96,742	147,435	178,245
Other	75,612	74,135	111,023	55,947	86,268	89,010	130,447	137,369	170,504
Total	1,157,300	782,490	1,443,529	118,175	106,842	152,014	590,795	684,271	687,271
South America:									
Brazil	NA	65,914	11	NA	72,124	3,998	0	0	0
Colombia	NA	37,644	0	NA	83,287	79,301	NA	8,518	0
Ecuador	NA	0	62	NA	21,267	37,353	0	0	0
Peru	NA	22,576	0	NA	24,527	32,774	0	0	33,560
Venezuela	NA	42,287	65,952	412	18,988	19,506	168,031	269,077	339,039
Other	NA	563	423	160,932	31,948	6,270	9,391	7,139	3,208
Total	179,684	168,984	66,448	161,344	252,141	179,202	177,422	284,734	375,807
Europe:									
Belgium & Luxembourg	517,072	366,234	593,327	NA	35	3	25,121	9,007	21,689
Czechoslovakia	0	1,524	1,270	NA	NA	NA	55,380	230,828	174,661
Denmark	398,980	335,965	274,392	NA	3	1	26,062	55,422	36,443
France	647,069	699,036	635,564	NA	3,569	2,940	203,942	368,915	159,215
Germany, Fed. Rep. of	1,555,967	1,263,313	1,451,099	NA	53	81	1,055,075	570,029	984,312
Germany, Dem. R.	1,000	3,129	1,600	NA	NA	NA	247,941	379,234	360,631
Ireland	0	0	0	NA	5	0	88,413	109,141	46,581
Italy	905,615	886,802	837,955	NA	0	1	742,157	678,347	825,961
Netherlands	4,433,809	4,235,496	5,392,262	NA	2	8,471	626,413	825,029	1,669,211
Norway	269,663	236,758	269,562	NA	NA	NA	0	0	168
Poland	151,274	201,301	241,637	NA	23,792	11,831	518,495	343,327	311,423
Portugal	149,463	174,051	120,832	NA	1	0	129,367	132,679	70,086
Romania	190,513	260,416	247,631	NA	NA	NA	38,279	236,108	292,704
Spain	1,639,897	1,774,110	1,720,915	0	0	1	279,525	213,630	2,698
Switzerland	131,714	45,695	4,318	NA	0	24	101,069	20,188	31,668
United Kingdom	707,917	525,750	449,281	NA	10	52	96,814	65,746	83,417
Yugoslavia	186,648	251,255	181,311	NA	0	19,989	112,324	81,329	182,050
Other	86,007	130,216	189,737	NA	216	244	255,935	194,889	239,966
Total	12,021,607	11,391,051	12,612,693	13,788	27,686	43,648	4,602,301	4,513,847	5,492,875

Continent and Country of Destination	Soybeans[1]			Soybean oil[2]			Soybean oilseed cake and meal[3]		
	1978	1979	1980[4]	1978	1979	1980[4]	1978	1979[6]	1980[4, 5]
Soviet Union:	744,328	1,816,955	172,942	0	24,696	0	0	26,979	0
Africa:	41,929	45,980	40,504	37,789	58,541	52,844	62,671	8,548	22,622
Asia:									
China:									
Mainland	57,002	412,235	605,688	44,203	58,817	99,657	0	0	0
Taiwan	1,070,131	1,100,722	935,796	20	10	27	0	0	10,496
India	NA	NA	NA	268,176	225,245	366,405	493	0	0
Indonesia	107,193	105,750	202,924	NA	284	36	NA	17,774	18,608
Iran	NA	NA	0	117,841	107,659	0	93,625	121,353	0
Israel	406,907	366,018	259,659	7,399	9,794	8,613	0	0	0
Japan	3,854,953	3,707,192	4,032,866	62	132	115	267,343	205,056	245,505
Korea, Rep. of	296,113	421,815	564,433	NA	31	18	33,643	77,897	0
Pakistan	NA	0	17	95,814	163,539	150,221	0	0	0
Other	81,526	83,332	360,823	42,220	64,975	22,583	127,800	142,775	151,930
Total	5,873,825	6,197,065	6,728,506	575,736	630,486	647,675	522,904	564,854	426,539
Australia & Oceania:	589	12,658	31,126	22,449	28,942	20,697	5,016	4,481	18,673
Grand Total	20,704,536	20,890,129	21,778,536	929,282	1,129,334	1,096,080	5,961,109	6,087,713	7,023,787
Value of Exports:									
Total (Mil. $)	5,208	5,701	5,880	569	769	689	1,242	1,416	1,654
Per metric ton	$251.54	$272.91	$269.98	$612.42	$680.58	$628.50	$208.35	232.67	$235.49

Note: Figures computed from unrounded data.

[1] Beginning in 1978, excludes soybeans for planting. [2] Crude and refined oil combined as such. Includes shipments under P.L. 480 as reported by census. Beginning in 1978, excludes partially hydrogenated soybean salad oil. [3] Beginning in 1978, includes soybean flour and meal, nondefatted previously elsewhere classified. [4] Preliminary. [5] Unofficial revisions reported by the Census Bureau. [6] Subject to revision. Source: Foreign Agricultural Service. Compiled form reports of the U.S. Department of Commerce.

FOOD FATS AND OILS: IMPORTS, EXPORTS AND PRODUCTION
1971/72 - 1980/81[2]

	Year beginning October/Million Pounds									
Item	1971/72	72/73	73/74	74/75	75/76	76/77	77/78	78/79	79/80[1]	80/81[2]
Imports:										
Butter	2	2	56	2	2	2	1	1	1	1
Tallow, edible	—[3]	1	—[3]	—[3]	—[3]	—[3]	—	—	—	—
Olive oil	67	58	49	46	63	56	62	53	55	55
Coconut oil	634	687	563	674	1,248	1,115	980	967	825	850
Corn oil	—	—[3]	1	2	1	10	3	—[3]	—	—
Cottonseed oil	—	—[3]	—[3]	—	—[3]	—	—	—	—	—
Palm oil	440	363	346	757	933	661	361	277	206	200
Palm kernel oil	90	102	126	160	158	157	123	143	179	185
Peanut oil	—[3]	—[3]	1	—[3]	2	—[3]	—[3]	—[3]	7	—
Sesame oil	2	2	3	2	3	3	3	3	4	3
Sunflower oil	—	—	—	1	2	—	—	—	—	—
Total	1,235	1,215	1,145	1,644	2,413	2,006	1,533	1,444	1,262	1,294
Production:										
Butter	1,121	956	927	995	946	1,078	1,035	965	1,104	1,100
Lard	1,646	1,285	1,324	1,094	982	1,056	999	1,075	1,223	1,175
Tallow, edible	523	481	556	557	527	532	795	926	1,009	1,025
Oleo oil & Stearine[3]	5	8	9	11	7	8	5	5	5	5
Coconut oil	336	310	93	—	—	—	—	—	—	—
Corn oil	499	523	528	465	644	669	738	736	791	875
Cottonseed	1,308	1,564	1,552	1,335	920	1,198	1,453	1,281	1,423	1,365
Soybean oil	7,892	7,501	8,995	7,375	9,630	8,578	10,288	11,323	12,105	11,720
Peanut oil	265	273	195	236	494	312	145	164	188	150
Safflower oil (estimate)	140	150	100	115	100	75	95	125	100	100
Sunflower oil	—	—	—	92	110	37	195	254	493	575
Subtotal	13,735	13,051	14,278	12,275	14,360	13,542	15,753	16,854	18,441	18,090
Oilseeds (oil equiv. of exports)	4,556	5,299	6,221	4,887	6,445	6,453	8,503	9,405	11,311	10,330
Total supply	21,272	21,332	22,923	20,474	24,589	24,383	27,713	29,538	29,752	28,420
Exports and shipments:										
Butter	124	18	8	4	3	4	2	1	1	10
Lard	220	132	180	147	185	249	179	139	95	150
Tallow, edible	5	20	43	17	22	23	18	50	60	65
Oleo oil & stearine	5	8	9	11	7	8	5	5	5	5
Coconut oil	20	19	17	14	53	31	33	10	9	10
Corn oil	49	44	68	84	98	93	116	125	141	160
Cottonseed oil	453	584	565	686	500	691	758	661	727	710
Palm oil	32	40	24	27	39	57	52	11	7	7
Peanut oil	71	111	42	40	104	74	99	30	20	10
Processed food oils[4]	70	67	91	77	101	88	75	75	75	75
Safflower oil (estimate)	40	40	25	25	25	15	25	25	25	25
Soybean oil	1,440	1,086	1,461	1,090	1,034	1,608	2,141	2,409	2,699	2,200
Sunflower oil	—	—	—	9	10	31	75	80	189	265
Subtotal	2,529	2,171	2,533	2,231	2.181	2,972	3,578	3,621	4,157	3,996
Oilseed (oil equivalent):										
Cottonseed	1	3	17	2	26	4	15	2	16	30
Soybeans	4,429	5,191	6,100	4,643	6,083	6,126	7,700	8,283	9,650	8,720
Peanuts (for crushing abroad)	71	56	68	54	—	1	—	—	—	—
Safflower	55	49	36	38	26	22	28	37	40	35
Sunflowerseed	—	—	—	150	310	300	760	1,083	1,605	1,545
Subtotal	4,556	5,299	6,221	4,887	6,445	6,453	8,503	9,405	11,311	10,330
Total exports	7,085	7,470	8,754	7,118	8,626	9,425	12,081	13,026	15,462	14,761

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[1] Preliminary. [2] Forecast. [3] Less than 500,000 pounds. [4] Includes exports of processed food oils not classified by kind, shortening and other secondary fats. Source: FATS & OILS OUTLOOK AND SITUATION; Economics and Statistics Service, U.S. Department of Agriculture.

FOOD FATS AND OILS: DOMESTIC AND PER CAPITA DISAPPEARANCE 1971-80

Item	Year beginning October									
	1971	1972	1973	1974	1975	1976	1977	1978	1979[1]	1980[2]
Domestic Disappearance*										
Butter	1,043	1,024	964	1,059	917	941	982	1,013	1,024	1,050
Lard	1,480	1,185	1,150	989	803	814	822	935	1,129	950
Tallow, edible	546	479	500	548	470	534	723	869	900	910
Coconut oil	612	664	539	675	1,175	1,075	939	945	884	850
Corn oil	439	492	450	399	559	581	574	613	647	715
Cottonseed oil	834	980	991	622	451	532	683	620	660	710
Soybean oil	6,439	6,685	7,255	6,518	7,906	7,454	8,182	8,867	8,981	10,250
Olive oil	67	58	49	46	63	56	62	53	55	55
Palm oil	351	356	294	692	883	611	367	277	226	300
Palm kernel oil	92	107	120	165	151	138	168	138	159	185
Peanut oil	200	162	150	175	237	265	179	120	193	150
Safflower oil (estimate)	90	118	98	75	75	70	74	80	85	75
Sesame oil	2	2	3	2	3	3	3	3	3	3
Sunflower oil	—	—	—	83	80	26	120	166	210	275
Processed food oils[3]	−70	−67	−91	−77	−101	−88	−75	−109	−75	−75
Total	12,124	12,244	12,474	11,970	13,672	13,013	13,803	14,589	15,081	15,403
Total (calculated net)[4]	12,105	12,292	12,433	12,003	13,614	13,030	—	—	—	—
Total use for food[5]	11,312	11,501	11,597	11,340	12,172	11,711	12,264	12,600	12,885	—
Per Capita Disappearance**										
Butter (fat content)	4.0	3.9	3.7	4.0	3.4	3.5	3.6	3.7	—	—
Margarine (fat content)	8.9	9.0	9.0	8.8	9.6	9.3	9.0	9.3	—	—
Lard (direct use)	3.7	3.5	3.2	3.0	2.8	2.3	2.3	2.5	—	—
Baking and frying fats	17.3	17.3	17.3	16.6	18.3	17.2	17.9	18.9	—	—
Salad and cooking oils	16.7	17.4	18.5	17.8	19.5	19.0	20.5	21.3	—	—
Other edible uses	2.7	2.7	2.1	2.0	2.1	1.9	2.1	1.9	—	—
Total (fat content)	53.3	53.8	53.9	52.2	55.8	53.3	55.4	57.6	57.0	—

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*Million pounds. **Pounds. [1] Preliminary. [2] Forecast. [3] Includes exports of processed food oils not classified by kind, shortening and other secondary fats. [4] Adjusted to reflect changes in stocks of finished products. [5] Excludes food fats and oils used for non-food purposes. Source: FATS & OILS OUTLOOK AND SITUATION; Economics and Statistics Service, U.S.Department of Agriculture.

U.S. SOYBEANS: EXPORTS BY COASTAL AREAS AND COUNTRY OF DESTINATION FROM CANADA AND THE U.S.

September 1979 - August 1980 (1,000 Bushels)

Country	Canadian Ports	Great Lakes	Atlantic	Gulf	Totals 1979-80	Totals 1978-79
Algeria	0	0	0	436	436	–
Australia	0	0	463	202	665	0
Belgium	1,429	0	964	22,030	24,423	19,741
Brazil	0	0	1,614	808	2,422	3,922
Canada	0	13,877	0	0	13,951	12,752
China:						
Mainland	0	0	758	30,624	31,382	6,299
Taiwan	0	0	2,928	25,533	28,461	39,806
Columbia	0	0	0	1,129	1,129	–
Denmark	154	1,504	5,429	5,197	12,284	13,223
Dominican Republic	0	0	0	1,096	1,096	578
Egypt	0	0	559	0	559	719
France	1,665	3,065	15,713	9,597	30,040	24,002
Germany, Fed Rep. of (W)	669	1,895	0	63,743	66,307	57,920
Greece	0	470	0	4,915	5,385	2,928
Guyana	0	0	0	116	116	–
Indonesia	0	0	2,213	6,407	8,620	2,077
Israel	3,144	0	5,656	6,546	15,346	19,611
Italy	0	1,571	1,534	38,368	41,473	30,706
Jamaica	0	0	0	2,094	2,094	1,632
Japan	3,723	7,589	10,032	126,390	148,081[2]	156,376[3]
Korea, Rep. of	0	0	925	15,523	16,448	16,445
Kuwait	0	0	0	424	424	–
Lebanon	0	0	991	1,273	2,264	2,058
Malaysia	0	0	776	0	776	0
Mexico	0	0	0	18,131	25,094[4]	22,451
Morocco	0	0	0	412	412	0
Netherlands	2,340	2,225	0	198,125	202,690	156,868
Nicaragua	0	0	0	410	410	–
Norway	272	1,218	0	8,609	10,099	6,671
Panama	0	0	0	104	104	0
Philippines	0	0	0	435	435	278
Poland	0	0	5,302	6,472	11,774	2,709
Portugal	0	0	3,271	4,213	7,484	8,310
Romania	0	0	8,671	3,644	12,315	7,895
Singapore	143	0	0	0	143	887
Spain	8,057	5,863	35,092	42,492	91,504	62,092
Sweden	0	0	0	1,112	1,112	–
United Kingdom	2,014	382	6,556	8,146	17,098	17,082
Unknown	118	0	0	0	118	–
U.S.S.R.	334	554	3,252	24,439	25,579	44,546
Venezuela	0	0	0	1,748	1,748	2,049
Yugoslavia	0	0	0	7,533	7,533	8,201
Totals: 1979-80	24,062	40,213	112,699	688,476	872,834[5]	–
Totals: 1978-79	17,940	55,411	96,518	582,948	–	752,979[3]

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[1] The quantity of grain inspected at U.S. Ports for shipment to Canada is reduced by the amount of U.S. grain exported from Canadian Ports as reported by Canadian Grain Commission. It is assumed this residual amount of grain is held in Canada for later export or consumption. [2] Includes 347,000 bushels shipped from Pacific Ports. [3] Includes 162,000 bushels shipped from Pacific Ports. [4] Includes 6,963,000 bushels shipped from Interior Pts. [5] Includes 7,310,000 bushels shipped from Pacific Ports and Interior Pts.

Source: GRAIN MARKET NEWS, U.S. Department of Agriculture.

SOY AND COTTONSEED OIL EXPORTS

U.S. Exports for Dollars and under P.L. 480
By Country of Destination, and Total Value, 1976-1979[1]

Year Beginning in October

Country of Destination	1976 P.L. 480	1976 Com.[2]	1976 Total	1977 P.L. 480	1977 Com.[2]	1977 Total	1978 P.L. 480	1978 Com.[2]	1978 Total	1979 P.L. 480	1979 Com.[2]	1979 Total
	Million Pounds											
North America												
Canada	—	67	67	—	70	70	—	59	59	—	44	44
Dominican Republic	2	13	15	1	53	54	20	135	155	2	111	113
Haiti	13	25	38	3	27	30	3	35	38	6	45	51
Mexico	—	34	34	—	66	66	—	11	11	—	70	70
Others	5	49	54	—	46	46	—	88	88	—	148	148
Total	20	188	208	4	262	266	23	328	351	8	418	426
South America												
Argentina	—	—	—	—	—	—	—	—	—[3]	—	—	—[3]
Brazil	—	—	—	—	—	—	—	—	—	—	168	168
Chile	3	23	26	3	46	49	2	48	50	1	28	29
Colombia	2	59	61	—	97	98	—[3]	185	185	—[3]	182	182
Ecuador	—[3]	36	36	—[3]	57	57	—[3]	50	50	—[3]	78	78
Peru	2	124	126	11	140	151	29	36	65	7	73	80
Venezuela	—	79	79	—	96	96	1	94	95	—	181	181
Others	2	—	2	2	4	4	—	10	10	—	3	3
Total	9	321	330	16	439	455	32	423	455	8	713	721
Western Europe												
Spain	—	—	—	—	—	—	—	—	—	—	—[3]	—[3]
Sweden	—	2	2	—	5	5	—	—[3]	—[3]	—	1	1
Germany, West	—	4	4	—	23	23	—	3	3	—	—[3]	—[3]
Netherlands	—	26	26	—	36	36	—	9	9	—	27	27
Greece	—	—	—	—	—	—	—	—[3]	—[3]	—	9	9
Italy	—	—[3]	—[3]	—	—[3]	—[3]	—	[3]	—[3]	—	—[3]	—[3]
Belgium-Luxembourg	—	12	12	—	4	4	—	1	1	—	—[3]	—[3]
United Kingdom	—	9	9	—	6	6	—	5	5	—	1	1
Others	—	—[3]	—[3]	—	29	29	—	9	9	—	7	7
Total	—	53	53	—	103	103	—	27	27	—	45	45
Eastern Europe												
Poland	—	—	—	—	3	3	—	52	52	—	8	8
Yugoslavia	—	—	—	—	—	—	—	—	—	—	—	—
Others	—	11	11	—	—	—	—	—	—	—	54	54[4]
Total	—	11	11	—	3	3	—	52	52	—	62	62[4]
Africa												
Algeria	1	—	1	1	—	1	—	—	—[3]	—	—	—[3]
Egypt	3	429	432	5	433	438	13	315	328	12	347	359
Guinea	—[3]	—[3]	—[3]	6	—	6	4	—	4	—	—	—[3]
Morocco	7	—	7	6	6	12	5	8	13	5	—	5
Tunisia	2	—	2	2	4	6	3	13	16	1	—	1
Others	—	28	28	—	51	51	31	33	64	—	96	96
Total	13	457	470	20	494	514	56	369	425	18	443	461
Asia and Oceania												
Australia	—	50	50	—	49	49	—	36	36	—	36	36
Bangladesh	9	—	9	58	30	88	17	84	101	—	46	46
Burma	—	—	—	—	—	—	—	—	—	—	—	—
China:												
Mainland	—	—	—	—	234	234	—	130	130	—	220	220
Taiwan	—	—	—	—	—	—	—	—	—	—	—	—
Hong Kong	—	2	2	—	8	8	—	4	4	—	—	—
India	110	446	556	116	430	546	57	342	399	48	895	943
Iran	—	204	204	—	207	207	—	489	489	—	—	—
Israel	—	7	7	—	14	14	—	22	22	—	21	21
Japan	—	45	45	—	59	59	—	82	82	51	—	51
Pakistan	144	119	263	136	98	234	19	341	360	135	190	325
South Vietnam	—	—	—[3]	—	—	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—	—	—	7	7
Others	30	—	30	35	—	35	60	2	62	54	—	54
Total	293	873	1,166	345	1,129	1,474	153	1,532	1,685	288	1,415	1,703
Grand Total	335	1,903	2,238	385	2,430	2,815	264	2,731	2,995	322	3,096	3,418
Value of exports												
Total (mil. $)			592			746			903			995
Per Pound (cents)			26.5			26.5			30.2			29.1

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[1] Census data. Breakdown between Public Law 480 and commercial provided by the Oilseeds and Products Division, FAS. [2] Includes Barter, CCC credits. [3] Less than 500,000 pounds. [4] Includes 54 million pounds to the Soviet Union.

EXPORTS VEGETABLE OILS

Soy and Cottonseed Oils: U.S. exports for dollars and under Public Law 480 programs, 1950-79

	Dollars				P.L. 480				
Year[1]	Barter	CCC Credit	Other[2]	Total	Title I[3]	Title II[3]	Total	Grand Total	% P.L.480
				Million Pounds					
				SOY OIL					
1950	—	—	490	490	—	—	—	490	—
1955	—	—	274	274	282	—	282	556	51
1960	—	—	283	283	417	21	438	721	61
1961	—	—	624	624	466	218	684	1,308	52
1962	—	—	513	513	540	112	652	1,165	56
1963	31	—	509	540	520	45	565	1,106	51
1964	131	—	477	608	539	193	732	1,340	55
1965	176	21	182	379	324	220	544	923	59
1966	132	47	90	269	522	286	808	1,077	75
1967	67	18	47	132	618	213	831	963	86
1968	75	—	54	129	573	168	741	870	85
1969	444	53	145	642	604	174	778	1,420	55
1970	599	209	131	939	564	239	803	1,742	46
1971	202	273	188	663	394	341	735	1,398	53
1972	98	190	390	678	177	210	387	1,065	36
1973	—	—	1,159	1,159	168	108	276	1,435	19
1974	—	—	884	884	33	111	144	1,028	14
1975	—	—	779	779	182	15	197	976	20
1976	—	—	1,213	1,213	266	69	335	1,548	22
1977	—	—	1,672	1,672	291	94	385	2,057	19
1978	—	—	2,081	2,081	71	182	253	2,334	11
1979[4]	—	203	2,176	2,379	127	236	363	2,690	14
				COTTONSEED OIL					
1950	—	—	57	57	—	—	—	57	—
1955	3	—	306	309	290	6	296	605	49
1960	—	—	287	287	68	14	82	369	22
1961	—	—	183	183	202	86	288	471	61
1962	—	—	206	206	132	51	183	389	47
1963	—	—	328	328	221	35	256	584	44
1964	73	—	367	440	106	93	199	639	31
1965	51	—	154	205	65	2	67	272	25
1966	38	4	33	75	—	1	1	76	1
1967	19	—	28	47	—	2	2	49	4
1968	69	—	68	137	—	2	2	139	1
1969	43	60	348	451	—	1	1	452	—[5]
1970	186	22	153	361	9	1	10	371	3
1971	182	50	214	446	55	1	6	452	1
1972	232	89	255	576	6	—	6	582	1
1973	—	—	563	563	—	—	—	563	—
1974	—	—	685	685	—	—	—	685	—
1975	—	—	507	507	—	—	—	507	—
1976	—	—	690	690	—	—	—	690	—
1977	—	—	758	758	—	—	—	758	—
1978	—	—	650	650	11	—	11	661	2
1979[4]	—	—	710	710	18	—	18	728	2

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[1] Year beginning in October. [2] Includes dollar financing by AID. [3] Includes all sales programs, i.e., foreign currencies, which agencies and disaster and other relief by AID. [4] Preliminary. [5] Insignificant. Source: Total exports as reported by Bureau of Census. Breakdown between dollars and P.L.480 from Fats and Oils Division, FAS.

glossary of soybean terms

Terms used in conjunction with the processing of soybeans and the utilization of soy oil and other soy products.

Soybean(s) — A legume, the botanical name of which is Glycine max (L.) Merrill; a summer annual varying in height from less than a foot to more than 6 feet and in habit of growth from stiffly erect to prostrate; the cultivated plant may reach a height of 3 feet or more; the seeds (soybeans) are borne in pods that grow in clusters of three to five with each pod usually containing two or three or more seeds; the oil content of the soybean varies from 13% to 26% (average 18% to 22%) and from 38% to 45% of protein (on a moisture-free basis); grown for centuries in the Orient and first introduced to the United States early in the 19th century; soybeans grow best in areas having hot, damp summer weather but they can be grown under a great variety of climatic conditions; the term "soybean" has been accepted as standard in the United States in preference to "soya bean," "soy bean," "soyabean," or "soja bean"; it is incorrect to use the term "beans" when referring to soybeans.

Soybean Processor — An individual, or a group of two or more individuals working together as a company or firm, whose primary business is the separation of the oil and meal in soybeans; the activities of a processor may also include refining and/or distribution of the oil as well as distribution of the soybean meal or soy protein.

Soybean Processing — The procedures involved in the separation of the oil and the protein meal; there are two types of processes presently used in the United States for this purpose:

(1) **Solvent Extraction** — The process whereby the oil is leached or washed (extracted) from flaked soybeans by the use of hexane as the solvent; the level of oil in the extracted flakes can be reduced to 1% or less by this processing method; the products resulting from the use of this process are designated in the trade as "solvent extracted," e.g. "solvent extracted soybean meal," "dehulled solvent extracted soybean meal," "solvent extracted soy grits," "solvent extracted soy flour." Practically all soybeans processed in the United States are processed by the solvent extraction system.

(2) **Mechanical Processing** — A continuous pressing process, at elevated temperatures, using expellers or screw presses which utilize a worm shaft continuously rotating within a pressing cylinder or cage to express the oil from soybeans after they have been ground and properly conditioned; the oil content of the resulting press cake is reduced to from 4% to 6% by this processing method; although technically incorrect, the products resulting from this type of processing are often referred to as "expeller," e.g. "expeller soybean meal," the term "Expeller" applies specifically to the screw press manufactured by Anderson IBEC of Strongsville, Ohio, whereas the screw press manufactured by the French Oil Mill Machinery Co. of Piqua, Ohio, is designated as a "mechanical screw press."

A third type of processing, called **Hydraulic Pressing**, is not used at present in the United States to any appreciable extent but is used in some parts of the world for recovering the oil from soybeans and other oil-bearing materials; it is the oldest process known to the vegetable oil processing industry; it consists of an intermittent pressing operation carried out at elevated temperatures in a hydraulic press after the soybeans have been rolled into flakes and properly conditioned by heat treatment.

Crude Soy Oil — Sometimes referred to as crude raw soybean oil; the unrefined oil produced by any one of the procedures described for the processing of soybeans; it is customary to filter the oil and/or allow it to settle after being processed from the soybeans as required by the standard trade specifications.

A mixture of triglycerides composed of unsaturated fatty acids (oleic, linoleic, linolenic) and saturated fatty acids, together with usually not more than 1.5% of free fatty acids and from 1.8% to 3.2% of phospholipids, depending on the quality and kind of soybeans and the procedure used in the processing.

Edible Crude Soy Oil — Soy oil which shall be of any of the following designated types produced from domestic-grown, mature yellow soybeans: (1) expeller pressed, (2) expeller pressed degummed, (3) hydraulic pressed, (4) hydraulic pressed degummed, (5) solvent extracted, (6) solvent extracted degummed and (7) mixtures of any of the above-described types; when the oil is produced by solvent extraction, the name of the solvent used in the process must be given.

Degummed Soy Oil — Sometimes referred to as crude degummed soy oil; the product resulting from washing crude soy oil with water and/or steam or another degumming agent for a specified period of time and then separating the oil-and-water mixture, usually by centrifugation, to remove the phosphatides; it shall not contain more than 0.02% of phosphorus without a discount penalty.

Once Refined Soy Oil — Oil produced from crude soy oil which has been subjected only to the dilute alkali solution (refining) treatment or a comparable chemical treatment.

Fully Refined Soy Oil — The oil produced from crude or degummed soy oil which has been treated with dilute alkali solution (refining), decolorized by treatment with absorbent clay materials (bleaching) and subjected to steam distillation at high temperatures under vacuum (deodorizing).

Edible Refined Soy Oil — Crude or degummed soy oil which has been subjected to special refining processes to adapt it specifically for use in food products; in addition to treatment with alkali, bleaching, partial hydrogenation and deodorization, the oils may be also winterized; these oils are further classified as salad oils, cooking oils or shortenings.

Hydrogenated Soy Oil — During the process of hydrogenation, the soy oil is exposed to hydrogen gas in the presence of heat and a catalyst (nickel, copper chromite) and the hydrogen combines with certain of the chemical components (unsaturated fatty acids) of the triglycerides with a resultant increase in the melting point of the oil; sometimes referred to as "hardening."

Cold Pressed Soy Oil — Soy oil produced from domestic-grown, undamaged, mature, cleaned yellow soybeans by mechanical processing without application of heat, and then filtered. Such oil is usually sold in health food stores.

Winterized Oil — Oil which has been treated in a manner to partially remove the saturated glycerides which have relatively high melting points are soluble only to a limited extent in the unsaturated glycerides; the process consists of chilling the oil slowly and then maintaining it at 5 degrees C (41 degrees F) for a specified period of time and removing the crystallized glycerides from the liquid fraction of the oil by the use of filter presses; soy oil does not require winterizing unless it has been partially hydrogenated to increase stability.

Technical Grade Refined Soy Oil — Includes a wide variety of soy oils that are specially refined and further processed to meet requirements and/or specifications for a definite industrial use.

Soybean Fatty Acids — The product obtained when glycerine is split off from the triglycerides in soy oil by any method of hydrolysis; in the field of industrial usage, soybean fatty acids are usually further classified according to the treatment to which they are subjected subsequent to hydrolysis.

Soybean Soapstock — The byproduct that results from the alkali refining of soy oil; averages about 6% of the volume of crude oil refined; sometimes referred to as "foots" since it accumulates at the bottom (foot) of the refining tank; contract grade should contain not less than 30% total fatty acid.

Acidulated Soybean Soapstock — The product that results from the complete acidulation of soybean soapstock; contract grade should contain not less than 85% total fatty acid.

Soybean Lecithin — The mixed phospholipids product obtained from soy oil by the degumming process, contains lecithin, cephalin and inositol phosphatides, together with glycerides of soy oil and traces of tocopherols, glucosides and pigments; it shall be designated and sold according to conventional descriptive grades with respect to consistency and bleaching; the dehydrated emulsion of mixed phosphatides and soy oil is further processed to produce the commercial grades which may be described as follows: plastic or firm consistency; soft consistency; fluid; unbleached; bleached; and double bleached high-quality commercial lecithin contains 60% to 65% phosphatides.

Break Material — Flocculent material (precipitate) that appears in and can be separated from crude soy oil that has been rapidly heated to temperatures between 250 degrees C and 300 degrees C (482 degrees F and 572 degrees F); found to be very high in ash content, rich in phosphorus, calcium and magnesium; presumed to be derived from phospholipids which are thermally decomposed at these high temperatures; sometimes referred to as "foots."

Sludge — The solid residue which settles to the bottom of the tank or car in which crude soy oil is stored or shipped; cannot be pumped out or removed by rubber-faced scrapers from the surface to which it adheres; steam must be applied to facilitate its removal; sometimes referred to as "tank bottoms" or "foots."

STANDARD SPECIFICATIONS

These have been adopted for certain soy products as follows by the National Soybean Processors Association (NSPA) and made a part of their Trading Rules governing purchase and sale of soybean meal in the United States:

Soybean Cake, Soybean Chips — The product after the extraction of part of the oil by pressure or solvents from soybeans. A name descriptive of the process of manufacture, such as expeller, hydraulic or solvent extracted shall be used as part of the brand name. It shall be designated and sold according to its protein content.

Soybean Flakes, 44% Protein Soybean Meal — Produced by conditioning ground soybeans and reducing the oil content of the conditioned product by the use of hexane or homologous hydrocarbon solvents to 1% or less on a commercial basis; standard specifications are as follows:

Protein (when loaded by seller)	Minimum	44.0%
Fat	Minimum	0.5%
Fiber (when loaded by seller)	Maximum	7.0%
Moisture (when loaded by seller)	Maximum	12.0%
seller)		

Dehulled Soybean Flakes, 49% Protein Solvent Extracted Soybean Meal — Produced by cracking, heating and flaking dehulled soybeans and reducing the oil content of the conditioned flakes by the use of hexane or homologous hydrocarbon solvents to 1% or less on a commercial standard specifications are as follows:

Protein (when loaded by seller)	Minimum	49.0%
Fat	Minimum	0.5%
Fiber (when loaded by seller)	Maximum	3.3%
Moisture (when loaded by seller)	Maximum	12.0%

SOY PROTEIN

The following terms and their definitions are quite widely used and accepted in the trade in conjunction with the production and utilization of soy flour and other soy products.

Protein — A naturally occurring combination of amino acids, containing the chemical elements carbon, hydrogen, oxygen, nitrogen and usually sulphur; one of the essential constituents of all living things and of the diet of the animal organism.

Amino Acids — Chief components and determinants of the characteristics of a protein; the building blocks of living tissues. Eighteen different amino acids commonly occur in our food supply and eight are considered essential because the body cannot make them.

Soy Grits and/or Flour — The ground, screened, graded product obtained after extracting most of the oil from selected, sound, clean, dehulled soybeans. They are produced from grinding the defatted soy flakes. Grits are coarser ground than soy flour. Protein range is 40% to 60%.

Defatted Soy Flour — Flour produced by the nearly complete removal of the oil from soybeans by the use of hexane or other homologous hydrocarbon solvents; usually contains about 1% of fat.

Low-fat Soy Flour — Flour produced either by partial removal of the oil from soybeans or by adding back soy oil and/or lecithin to defatted soy flour to specified level, usually in the range of 5% to 6%.

High-fat Soy Flour — Flour produced by adding back soy oil and/or lecithin to defatted soy flour to a specified level, usually in the range of 15%.

Full-fat Soy Flour — Flour containing all of the oil originally present in the raw soybeans; usually contains 18% to 20% of fat.

SOY PRODUCTS

The following have been adopted officially by the American Feed Control Officials Inc. (AFCO):

Ground Soybeans — The product obtained by grinding whole soybeans without cooking or removing any of the oil; [sometimes erroneously called "soybean meal."] (Adopted 1933.)

Soybean Hulls — The product consisting primarily of the outer covering of the soybean. (Adopted 1948.) NSPA states that a typical analysis is 13% moisture.

Solvent Extracted Soybean Feed — The material resulting from the partial removal of protein-free and nitrogen-free extract from dehulled, solvent extracted soybean flakes; it shall be designated and sold according to its protein content. (Adopted 1948. Amended 1960 and 1964.)

Soybean Meal — The product obtained by grinding the cake, chips or flakes which are products obtained by removal of most of the oil from soybeans by several methods, hydraulic, expeller and solvent extracted, respectively; the name must include one of the terms "Hydraulic," "Expeller" or "Solvent Extracted" to indicate the method of manufacture of the source material; heat shall be applied during the process; it may be sold in various physical forms other than "meal," such as "cubes," "pellets," "pea size," "cake," "chips" or "flakes"; it must be designated and sold according to its protein content [and shall contain not more than 7% crude fiber.] (Proposed 1960. Adopted 1961.)

Dehulled Solvent Extracted Soybean Meal — The product obtained by grinding flakes which are obtained by removing most of the oil from dehulled soybeans; heat shall be applied during the process; it must be designated and sold according to its protein content and must not contain more than 3% crude fiber. (Proposed 1960, Adopted 1961.) NSPA states not less than 3.3% fiber, not more than 49% protein and not greater than 0.5% fat.

Soybean Mill Run — The product resulting from the manufacture of dehulled soybean meal and is composed of soybean hulls and such bean meats that adhere to the hull in normal milling operations; it shall contain not less than 11% crude protein and not more than 35% crude fiber. (Proposed 1960, Adopted 1961.) NSPA states that a typical analysis is 11% crude protein, 35% crude fiber and 13% moisture.

Heat Processed Soybeans — The product resulting from heating whole soybeans without removing any of the component parts; it may be ground, pelleted, flaked or powdered; it shall be sold according to its protein content. (Proposed 1960, Adopted 1964.)

Soybean Mill Feed — The byproduct resulting from the manufacture of soy flour or grits and is composed of soybean hulls and the offal from the tail of the mill; it shall contain not less than 13% crude protein and not more than 32% crude fiber. (Proposed 1960, Adopted 1961, Amended 1964.) NSPA states that a typical analysis is 13% crude protein, 32% crust fiber and 13% moisture.

Lecithinated Soy Flour — A type of low-fat or high-fat soy flour in which lecithin is added to defatted soy flour to a specified level, usually in a range up to 15%.

Soy Protein Concentrate — Produced from defatted soybean flakes or flour by a process which immobilizes the protein and removes soluble sugars, mineral, etc. Concentrate has a protein content of 70%.

Isolated Soy Protein — Protein which has been greatly concentrated from its native location by chemical or mechanical means. It is produced by extracting white flakes or flour with water or a mild alkali. Isolate generally has a protein content of 90%.

Textured Vegetable Protein — Soy or other vegetable protein that has texture imparted by spinning a fiber and combining the fiber in layers to achieve the desired texture, or by a thermoplastic extrusion process.

Meat Analogs — Material usually prepared from vegetable protein to resemble specific meats in texture, color and flavor.

Meat Extenders — Use of soy or other vegetable proteins as partial substitutes for meat in processed items such as patties, chili, casseroles, etc.

Toasting — The term commonly but erroneously applied to the processes (moist) of cooking soybean meal, flour or grits by atmospheric or pressure methods for the purpose of increasing the protein efficiency of these soy products or improving their functional properties and/or improving physical texture.

UNITED STATES STANDARDS FOR SOYBEANS*

Revised Effective
September 8, 1977

SECTIONS
26.601 Terms defined.
26.602 Principles governing application of standards.
26.603 Grades, grade requirements and grade designations.

AUTHORITY
26.601 to 26.603 issued under Sec. 8, 39 Stat. 485; 7 U.S.C. 84. Interpret or apply Sec. 2, 39 Stat. 482, as amended; 7 U.S.C. 74.

26.601 **Terms defined**—For the purposes of the United States Standards for Soybeans:

(a) **Soybeans.** Soybeans shall be any grain which consists of 50% or more of whole or broken soybeans which will not pass readily through an 8/64 sieve and not more than 10% of other grains for which standards have been established under the United States Grain Standards Act.

(b) **Classes.** Soybeans shall be divided into the following five classes: yellow soybeans, green soybeans, brown soybeans, black soybeans and mixed soybeans.

(c) **Yellow soybeans.** Yellow soybeans shall be any soybeans which have yellow or green seed-coats and which in cross section are yellow or have a yellow tinge and may include not more than 10% of soybeans of other classes.

(d) **Green soybeans.** Green soybeans shall be any soybeans which have green seed-coats and which in cross section are green and may include not more than 10% of soybeans of other classes.

(e) **Brown soybeans.** Brown soybeans shall be any soybeans with brown seed-coats and may include not more than 10% of soybeans of other classes.

(f) **Black soybeans.** Black soybeans shall be any soybeans with black seed-coats and may include not more than 10% of soybeans of other classes.

(g) **Mixed soybeans.** Mixed soybeans shall be any mixture of soybeans which does not meet the requirements of the classes yellow soybeans, green soybeans, brown soybeans or black soybeans. Bicolored soybeans shall be classified as mixed soybeans.

(h) **Grades.** Grades shall be the U.S. numerical grades, U.S. sample grade and special grades provided for in 26.603.

(i) **Bicolored soybeans.** Bicolored soybeans shall be soybeans with seed-coats of two colors, one of which is black or brown.

(j) **Splits.** Splits shall be pieces of soybeans that are not damaged.

(k) **Damaged kernels.** Damaged kernels shall be soybeans and pieces of soybeans which are heat-damaged, sprouted, frosted, badly ground-damaged, badly weather-damaged, moldy, diseased, stinkbug-stung, or otherwise materially damaged. Stinkbug-stung kernels shall be considered damaged kernels at the rate of one-fourth of the actual percentage of the stung kernels.

(l) **Heat-damaged kernels.** Heat-damaged kernels shall be soybeans and pieces of soybeans which are materially discolored and damaged by heat.

(m) **Foreign material.** Foreign material shall be all matter, including soybeans and pieces of soybeans, which will pass readily through an 8/64 sieve and all matter other than soybeans remaining on such sieve after sieving.

(n) **Stones.** Stones shall be concreted earthy or mineral matter and other substances of similar hardness that do not disintegrate readily in water.

(o) **8/64 sieve.** An 8/64 sieve shall be a metal sieve 0.032 inch thick perforated with round holes 0.125 (8/64) inch in diameter with approximately 4,736 perforations per square foot.

26.602 **Principles governing application of standards.** The following principles shall apply in the determination of the classes and grades of soybeans:

(a) **Basis of determination.** Each determination of class, splits, damaged kernels, heat-damaged kernels and of black, brown and/or bicolored soybeans in yellow or green soybeans, shall be upon the basis of the grain when free from foreign material. All other determinations shall be upon the basis of the grain as a whole.

(b) **Percentages.** All percentages shall be upon the basis of weight. The percentage of splits shall be expressed in terms of whole percents. All other percentages shall be expressed in terms of whole and tenths percents.

(c) **Moisture.** Moisture shall be ascertained by the air-oven method prescribed by the United States Department of Agriculture, as described in Service and Regulatory Announcement No. 147, issued by the Agricultural Marketing Service or ascertained by any method which gives equivalent results.

(d) **Test weight per bushel.** Test weight per bushel shall be the weight per Winchester bushel as determined by the method prescribed by the United States Department of Agriculture, as described in Circular No. 921 issued June 1953 or as determined by any method which gives equivalent results.

26.603 **Grades, grade requirements and grade designations.** The following grades, grade requirements and grade designations are applicable under these standards:

(a) **Grades and grade requirements for soybeans.** (see also paragraph (c) of this section).

(b) **Grade designation.** The grade designation for soybeans shall include in the order named, the letters "U.S."; the number of the grade or the words "Sample grade," as the case may be; the name of the class and the name of each applicable special grade. In case of mixed soybeans the grade designation shall also include, following the name of the class, the approximate percentages of yellow, green, brown, black and bicolored soybeans in the mixture.

(c) **Optional grade designations.** Soybeans may be certificated (under certain conditions**), when supported by official analysis, as "U.S. No. 2 or better Soybeans," "U.S. No. 3 or better Soybeans," etc. The optional grade designation for soybeans shall include the name of the class immediately preceding the word "soybeans" in the grade designation. The special grade designation, when applicable, also shall be included (under certain conditions**) in the certification.

(d) **Special grades, special grade requirements and special grade designation for soybeans:**

(1) **Garlicky soybeans**—(i) **Requirements.** Garlicky soybeans shall be soybeans which con-

MAXIMUM LIMITS OF

Grade	Minimum test weight per bushel pounds	Moisture	Splits	Damaged kernels		Foreign material	Brown, black and/or bicolored soybeans in yellow or green soybeans
				Total	Heat damaged		
1	56	13.0%	10%	2.0%	0.2%	1.0%	1.0%
2	54	14.0	20	3.0	0.5	2.0	2.0
3†	52	16.0	30	5.0	1.0	3.0	5.0
4‡	49	18.0	40	8.0	3.0	5.0	10.0

U.S. sample grade: U.S. Sample grade shall be soybeans which do not meet the requirements for any of the grades from U.S. No. 1 to U.S. No. 4, inclusive; or which are musty, sour or heating; or which have any commercially objectionable foreign odor; or which contain stones or which are otherwise of distinctly low quality.

†Soybeans which are purple mottled or stained shall be graded not higher than U.S. No. 3. ‡Soybeans which are materially weathered shall be graded not higher than No. 4.

tain five or more garlic bulblets in 1,000 grams.

(ii) **Grade designation.** Garlicky soybeans shall be graded and designated according to the grade requirement of the standards applicable to such soybeans if they were not garlicky and there shall be added to and made a part of the grade designation the word "garlicky."

(2) **Weevily soybeans—(i) Requirements.** Weevily soybeans shall be soybeans which are infested with live weevils or other live insects injurious to stored grain.

(ii) **Grade designation.** Weevily soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not weevily and there shall be added to and made a part of the grade designation the word "weevily."

INTERPRETATIONS (added)

26.901 Interpretation with respect to the term "Distinctly low quality."

The term "distinctly low quality," when used in the United States Standards for Grain, shall be construed to include grain which contains more than two crotalaria seeds (Crotalaria spp.) in 1,000 grams of grain.

26.902 Interpretation with respect to the term "purple mottled or stained."

The term "purple mottled or stained," when used in the United States Standards for Soybeans [see 26.603 (a)] shall be construed to include soybeans which are discolored by the growth of a fungus; or by dirt; or by a dirtlike substance including nontoxic inoculants; or by other nontoxic substances.

26.903 Interpretation with respect to the term "Bicolored soybeans."

The term "bicolored soybeans," when used in the United States Standards for Soybeans [see 26.601 (i)], shall be construed to include any soybeans with seed-coats of two colors, one of which is black or brown, when the black and/or brown color covers 50 percent or more of the seed-coat. The hilum of a soybean shall not be considered a part of the seed-coat.

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*The specifications of these standards shall not excuse failure to comply with the provisions of the Federal Food, Drug and Cosmetic Act.

**The conditions are listed in the Grain Inspection Manual, GR Instruction 918.6. Copies may be obtained from the Inspection Division, Federal Grain Inspection Service, U.S. Department of Agriculture, 1400 Independence Avenue, S.W., Washington, D.C. 20250.

SOY FLOUR STANDARDS

	Full-fat soy flour	Low-fat soy flour	Defatted soy flour
Protein (Nx 6.25)*	40.0% Min.	45.0% Min.	50.0% Min.
Protein (Nx 5.7)*	36.5% Min.	41.0% Min.	45.0% Min.
Fat (Ether Extract)*	18.0% Min.	4.5–9.0% Max.	2.0% Max.
Fibre*	3.0% Max.	3.3% Max.	3.5% Max.
Moisture	8.0% Max.	8.0% Max.	8.0% Max.
Ash*	5.5% Max.	6.5% Max.	6.5% Max.

Screen: 97% through No. 100 U.S. Standard Screen for each of the above.
*Moisture free basis.

Definition

The Products shall be processed from high quality, sound, clean, dehulled yellow soybeans as defined in the United States Grain Standards Act. The soybeans shall be subjected to a thorough initial cleaning operation, that shall substantially remove all foreign material. Disagreeable flavors and odors shall be removed by subjecting the soy material to adequate processing.

Soy flour shall be prepared and packaged under modern sanitary conditions.

The soy flour shall be free from burnt, musty, rancid or other undesirable flavors or odors; free from burnt, scorched or grayish color and free from insects, insect webbing, dirt or other extraneous matter.

U.S. SOYBEANS: INSPECTIONS FOR EXPORT BY GRADES AND BY PORTS

September 1979 - August 1980 (1,000 Bushels)

Ports	No. 1	No. 2	No. 2 or Better	No. 3	No. 3 or Better	Other	Not Inspected	Total
Lakes[1]								
Chicago Area	0	1,520	4,755	2,109	3,804	0	0	12,188
Duluth-Superior	0	373	1,210	455	672	0	0	2,710
Toledo Area	0	44,324	0	2,136	0	0	0	46,460
Saginaw Area	4	457	2,425	23	0	0	0	2,917
Subtotal	4	46,674	8,390	4,723	4,476	0	0	64,275
Atlantic								
North	0	0	22,945	0	0	0	0	22,945
South	0	34,338	38,509	2,035	7,354	1,188	6,330	89,754
Subtotal	0	34,338	61,454	2,035	7,354	1,188	6,330	112,699
Gulf								
Mississippi River	611	22,803	413,599	5,685	67,246	12,793	20,938	543,675
East Gulf	0	698	68,695	2,039	4,555	0	0	75,987
North Texas Gulf	0	424	46,458	0	20,406	300	1,226	68,814
South Texas Gulf	0	0	0	0	0	0	0	0
Subtotal	611	23,925	528,752	7,724	92,207	13,093	22,164	688,476
Pacific								
Columbia River	0	0	0	0	0	0	0	0
Puget Sound	0	1	0	1	0	0	0	2
California	0	0	0	0	246	86	13	345
Subtotal	0	1	0	1	246	86	13	347
Interior	78	6,517	0	385	0	14	43	7,037
Subtotal	78	6,517	0	385	0	14	43	7,037
Totals;								
Sept. 1979-Aug. 1980	693	111,455	598,596	14,868	104,283	14,389	28,550	872,834
Sept. 1978-Aug. 1979	1,134	222,492	35,753	464	2,830	8,947	—	752,979

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[1] Includes water shipments to Canada. Source: GRAIN MARKET NEWS.

UNITED STATES AND BRAZIL: EXPORTS OF SOYBEANS AND PRODUCTS

	United States exports (1,000 MT)				Brazil exports (1,000MT)				Brazil's exports as share of U.S. and Brazil(%)			
Item	**1976**	**1977**	**1978**	**1979**	**1976**	**1977**	**1978**	**1979**	**1976**	**1977**	**1978**	**1979**
Soybeans												
European Community	7,196	7,508	9,216	8,313	1,436	933	365	376	17	11	4	4
Other Western Europe	1,686	1,707	2,277	2,361	571	625	200	155	25	27	8	6
Eastern Europe[1]	847	799	1,273	2,534	1,187	552	32	45	58	41	2	2
Other	5,603	6,181	7,939	7,680	445	477	62	62	7	7	1	1
Total	15,332	16,195	20,705	20,888	3,639	2,587	659	638	19	14	3	3
Soybean meal												
European Community	2,817	2,199	2,817	2,682	2,502	3,133	3,934	3,416	47	59	58	56
Other Western Europe	436	251	562	404	308	321	137	190	41	56	20	32
Eastern Europe	921	507	1,176[2]	1,455[2]	1,093	1,230	738	982	54	71	39	40
Other	688	1,177	1,359	1,546	471	670	610	583	41	36	31	27
Total	4,862	4,134	5,914	6,087	4,374	5,354	5,419	5,171	47	56	48	46
Soy Oil												
Bangladesh	24	21	27	53	6	10	7	0	20	32	21	0
Peo. Rep. of China	0	62	44	59	6	73	53	47	100	54	55	44
Iran	47	50	118	108	186	115	105	68	80	70	47	39
Morocco	6	5	3	6	26	27	3	6	81	84	50	50
Peru	29	58	63	25	26	7	0	--[3]	47	11	0	0
Tunisia	—[3]	3	3	5	0	0	0	0	0	0	0	0
Turkey	3	0	—[3]	0	8	0	0	0	73	0	0	0
Other	401	575	671	873	240	270	336	413	37	32	33	32
Total	510	774	929	1,129	498	502	504	534	49	39	35	32

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[1] Includes soybean exports to the Soviet Union. [2] Includes soybean meal to the Soviet Union. [3] Less than 500 MT. Source: Foreign Agriculture Service.

METRIC CONVERSION TABLES

1 inch = 2.54 centimeters
1 foot = 30.48 centimeters
1 foot = 0.30 meters
1 mile = 1.61 kilometers
1 acre = .40 hectares
1 pound = 453.59 grams
1 gallon = 3.78 liters

1 meter = 39.37 inches
1 meter = 3.28 feet
1 kilometer = 3,281 feet
1 kilometer = 0.62 miles
1 hectare = 2.5 acres
1 kilogram = 2.2 pounds
1 bushel = 36.87 liters

(SOYBEANS)

1 bushel of soybeans = 60 pounds
1 short ton = 33.33 bushels
1 short ton = .90 metric tons
1 long ton = 37.33 bushels
1 bushel of soybeans = 10.7 pounds of crude soy oil
1 bushel of soybeans = 47.5 pounds of soybean meal
1 short ton of soybean meal = 42.08 bushels of soybeans
1 long ton of soybean meal = 47.13 bushels of soybeans

1 metric ton = 36.74 bushels
1 metric ton = 1,000 kilograms
2,205 pounds
1 metric ton of soybean meal = 46.39 bushels of soybeans
79.2% of a bushel of soybeans is manufactured into soybean meal
17.8% of a bushel of soybeans is manufactured into soy oil
3% is manufacturing loss
1 bushel of soybeans = 39 pounds of soy flour, 20 pounds of concentrate or 11.8 pounds of isolates.

TEMPERATURE CONVERSIONS

Celsius = 5/9 (F – 32)
Fahrenheit = (C × 1.8) + 32

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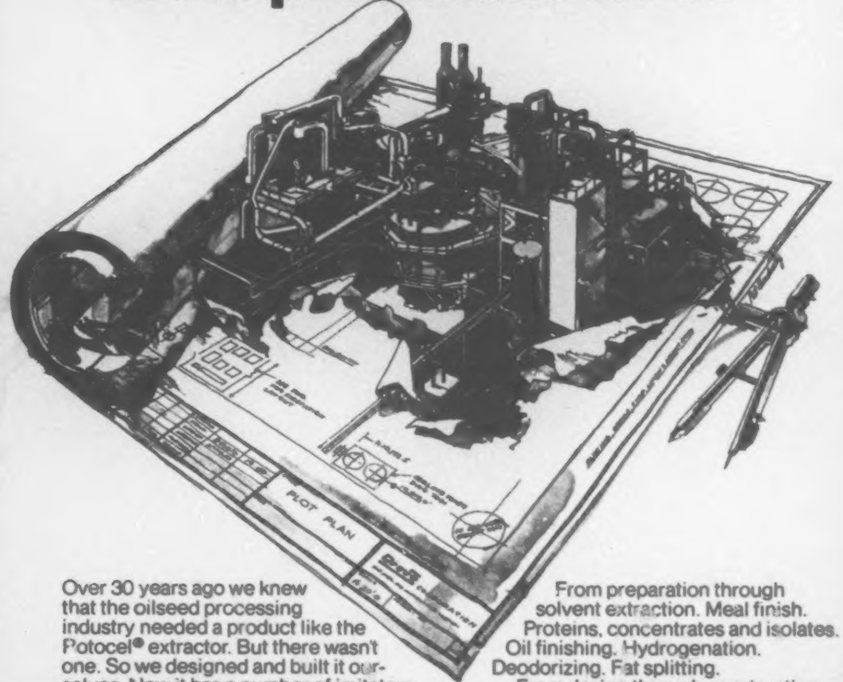

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